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*For a Rainbow
of Color Plant*
PERFECTION BRAND
Gladioli Bulbs



*"Perfection
Brand
Seeds
Since
1906"*



BINDING-STEVENSON
SEED COMPANY
GARDEN, FLOWER and
FIELD SEEDS, POULTRY
BIRD, DAIRY and DOG
SUPPLIES

TULSA, OKLAHOMA

For Those of You Who Want the "New When it is New," We Offer These Four Outstand- ing New Flowers

Scabiosa Imperial Giants Blue Moon

The flower of this new Scabiosa is very different from the old type, instead of a flower composed of a few rows of broad petals surmounted by a flat pincushion like top of small petals, this new type has flowers composed entirely of broad, heavy, wavy petals, eliminating the pincushion center entirely. Because of this complete doubleness, the flowers are of course extremely large and deep, 2½ inches across and 2 to 2½ inches deep, about the shape of an old fashion beehive. The color is a rich, deep lavender blue, a shade which maintains its effectiveness indoors and out. Long stems and excellent for cutting. Price: Pkt., 25c; 5 for \$1.00. Postpaid.



SCABIOSA—BLUE MOON

New Morning Glory Scarlet O'Hara

An early Morning Glory, the blooms measure from three to four inches in diameter and are a vivid scarlet, but lacking the harshness usually found in this color. Although not readily seen, there is just enough orange hidden in the color make-up to give the impression that the blooms are of soft velvet. The grand feature of this new Morning Glory is that it is very early. The first flowers will begin to appear in about sixty-five days from seed. A prolific bloomer and the blooms remain open all day, even in the warmest weather. Pkt., 20c. Postpaid.

Our Front Cover

Because it was our good fortune to secure the finest Gladioli Bulbs in this country we are this season calling your particular attention to them. Never before have we been able to offer such outstanding "Glad" bulbs at the prices quoted.

The beautiful yellow on the front cover is our Gate of Heaven—a very outstanding yellow.

The lovely Rose Pink is the popular Rosemarie-Pfitzer.

See page 20 for complete description and prices on all "Glads"

Phlox Gigantea Salmon Glory

We take pleasure in offering Salmon Glory. The individual florets are gigantic for Phlox, measuring with ordinary field culture from 1¼ to 1½ inches in diameter. The color is a pure salmon pink with a distinct creamy-white eye. This combination with its clear, clean, crisp appearance, makes one of the most beautiful color combinations we have ever seen. Salmon Glory will prove one of the outstanding flowers in your garden. You must be sure and include one or more packets with your order. Packet, 25c; 5 for \$1.00. Postpaid.

Nasturtium Semi-Double Sweet Scented Indian Chief

This is of the characteristic Gleam type of Nasturtium, that is semi-double, sweet scented, and semi-tall, throwing out eighteen to twenty inch runners from the plant, making a rather strong growth, and with the blooms carried well above the foliage. The color is a very brilliant, intense scarlet and the foliage is a dark russety red color instead of the usual light green of Nasturtiums. Pkt., 25c; 5 for \$1.00. Postpaid.



PHLOX GIGANTEA SALMON GLORY

For the 34th Consecutive Year—Greetings

There is an old saying, trite but true, that "nothing succeeds like success" and it was never more applicable than to our business. True enough, we are not the largest Seed House in the country and we wish to assure you that we have no desire to become the largest, but we can say safely and without fear of successful contradiction that regardless of size, you cannot buy better seeds than Perfection Brand.

We have been successful because we have never lost sight of the small buyer. Regardless of the size of your purchase, your order is always welcome and will receive the same courteous attention as if it were a carload lot.

For the 34th consecutive year, or since 1906, we invite your business and urge the larger growers to send their lists for quantity prices.

Suggestions for Ordering

A reading of the following will prove an aid to you and to us:

OUR PRICES—Including bags, boxes, and free cartage to the depot.

The prices quoted in this catalog include free delivery on packets, ounces, quarter pounds, pounds (except where otherwise stated). "By freight or express" means that transportation charges are paid by the customer.

EARLY ORDERS—Our rush season comes in the months of March and April. Orders sent at once secure prompt shipment from our full stock.

HOW TO ORDER—Write your name, postoffice, State, and express office plainly with black ink on every order and every time you write us. Give plain express, mail, or freight directions. Where none are given, we route at buyer's risk.

MARKET GARDENERS and others who buy vegetable seed in bulk to the amount of \$10.00 or more are requested to send their list of seeds wanted to us and let us make special quotations.

PLANT ORDERS—Orders for plants will be filled as early in the spring as we consider it safe to send them. If

ordered for immediate shipment in severe weather, they will be sent at purchaser's risk.

USE ORDER SHEETS—The use of order sheets enclosed in this catalog is a great help to us in facilitating filling and shipment of orders. More will be sent on receipt of postal asking for same.

ABOUT WARRANTING SEEDS—It is impractical to guarantee seeds, as the best seeds will fail under improper treatment. Some may be sown in too dry ground or too wet, too deep, or too shallow. Some hardy seeds will stand cold weather and will grow where the soil is too cold for others and would cause them to decay. Insects may attack and destroy them. For these reasons we do not give warranty in any respect, and will not be responsible for the crop.

WE GIVE "J.N." GREEN TRADING STAMPS

Premium List on
Request



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Perfection Brand Tested Garden Seed

Every lot of Perfection Brand Seed is thoroughly tested for active, abundant, and vigorous life, so that only the most vital product is shipped. The exacting nature of these tests have won the confidence of thousands of Southwestern gardeners who plant Perfection Brand Seeds, and gladly recommend them to their neighbors and friends.

Asparagus

Asparagus is one of the first vegetables in spring, as well as one of the best grown in the garden. It is perfectly hardy, grows year after year from the same roots and never fails to produce a crop. Asparagus does well on any well-drained soil, but the best results are obtained from rich, deep, loamy soil.

WASHINGTON—Rust-Resistant Asparagus. Practically free from rust and other diseases. Stalks are large and thick; dark green with a heavy overcast of rich purple. Has a long tight, pointed bud and does not branch out until well beyond the market height. Unsurpassed in size, yield, appearance and flavor. Seed pkt., 10c; oz., 15c; ¼ lb., 35c.

Asparagus Roots

For those who desire to raise asparagus, one of the earliest of the spring vegetables, we suggest the purchase of asparagus roots. These are ready during March, but to be sure of getting them you should reserve your stock now by sending us your order.

Our strong two-year-old roots will give the best results in the shortest time possible.

ROOTS—2-year-old, per dozen, 35c, postpaid; by freight or express, \$1.50 per 100.

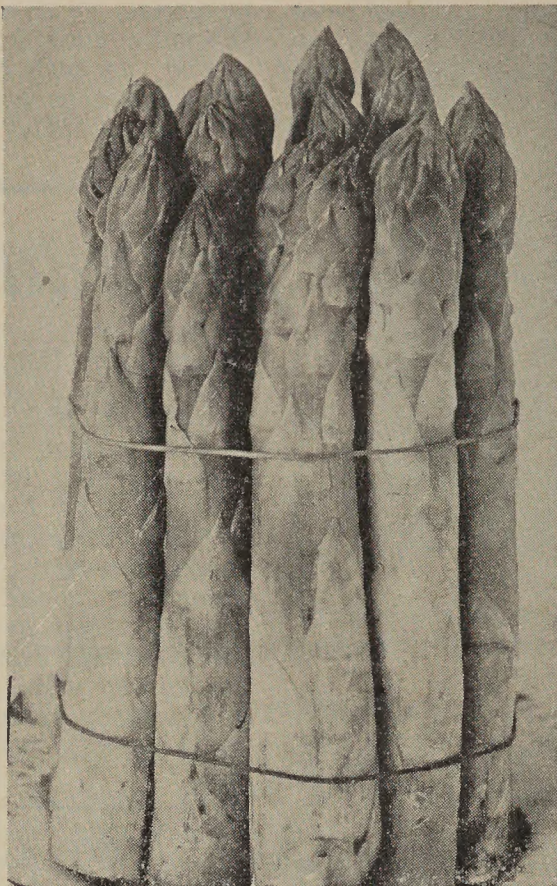
Garden Beans

SELECTED NORTHERN GROWN

Given moisture, this crop can be planted in the South in succession until the middle of August. A good, sandy loam is the best soil for beans, but they will grow well in any soil of average richness.

The bush varieties should be planted 1½ inches deep in drills 18 inches or 2 feet apart, 2 inches apart in the drill. When the plants are well up, thin gradually to six to eight inches from each other, leaving the strongest plants as much as possible. The pole variety should be planted two or three beans in a hill, two feet apart each way. Give them clean cultivation, mellowing the soil about them, but not going too deep, hilling broad and flat about the time they are to bear. Do not hoe them when wet from dew or rain, as this induces rust of leaves or pods.

A pound will plant 100 feet of drill; 2 bushels, or 120 lbs. to the acre in drills. For a larger yield of Beans, use Nitragin. See page 20.



Washington Asparagus

DWARF KENTUCKY WONDER—Pods measure 8 to 9 inches. Excellent quality; nearly straight, very fleshy, brittle and of fine texture, fiberless and stringless in all stages of growth. For a variety bearing such huge pods it is remarkably productive. Medium early. Plants are vigorous and of upright growth. Pkt., 15c; lb., 45c, postpaid.

TENNESSEE GREEN POD—This dwarf, early, intermediate snap bean is very popular in some sections of the South. The vines are large, somewhat spreading, and prolific. The pods are very long—very often 6 to 7 inches, flat, irregular in shape, bright but rather dark green, and of excellent quality. Pkt., 10c; lb., 30c, postpaid. By express, lb., 20c; 10 lbs., \$1.80.

GIANT STRINGLESS GREEN POD—This is a great improvement on the old-time popular favorite Valentine Bean. The pods are fully one-third longer, averaging 5 and 6 inches in length; absolutely stringless, very crisp, round, full and fleshy. It is enormously productive, its handsome pods being ready for market a few days earlier than the old Valentine. Pkt., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.80.

BURPEE'S STRINGLESS GREEN POD—Splendid for market and home garden. It is stringless in reality as well as name. It is an abundant cropper and the pods are thick, round, fleshy and nearly straight. Ready for picking in 45 days. Lb., 35c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.80.

ROUND POD RED VALENTINE—Pkg., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.80.

TENDERGREEN STRINGLESS GREEN POD—Exceptionally tender, entirely stringless, meaty pods that snap like icicles. The pods are 6 inches long, perfectly round. Makes in 54 days. Pkt., 10c; lb., 30c, postpaid. By express, lb., 25c; 10 lbs., \$2.00.

WHITE NAVY BEANS—Pkg., 10c; lb., 20c, postpaid. By freight or express, lb., 15c; 10 lbs., \$1.25.

Subsistence gardens should grow lots of beans; this crop produces more nourishment per square foot than any other.

Pole or Running Beans

A word about Pole Beans. Many growers hesitate to plant pole beans because of the scarcity of poles. This objection is easily overcome and the greater profit in growing the pole varieties should be sufficient reason for going to a little extra care. Plaster laths will answer the purpose and cost very little.

KENTUCKY WONDER WAX—This remarkable vigorous-growing, wax-podded pole bean is very similar to the green-podded Kentucky Wonder, but the very long pods are a little broader, very fleshy, and quite stringless as snaps. Pkt., 10c; lb., 35c, postpaid. By freight or express, per lb., 25c; 10 lbs., \$2.25.

IDEAL MARKET POLE BEAN—Ideal Market is the earliest pole bean we are acquainted with, being ready for the market with the dwarf varieties, and is one of the most productive. The long, nearly stringless, pulpy green pods are borne in immense clusters and are of delicious quality. Pkt., 10c; lb., 35c, postpaid. By freight or express, lb., 25c; 10 lbs., \$2.25.

CUT SHORT or CORNFIELD—Green beans; resembling those of the Bush Valentine dry beans, red-spckled. Pkt., 10c; lb., 30c, postpaid. By freight or express, 20c per lb.

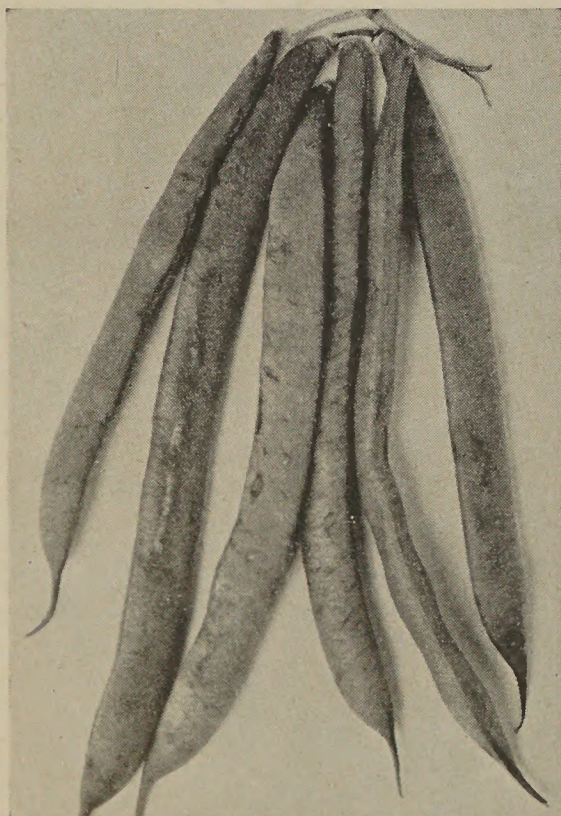
DUTCH CASEKNIFE—One of the earliest of the pole varieties; white seeds; used for snaps; good green or dry; a good winter sort, productive, and a good bean for planting among corn. Pkt., 10c; lb., 30c, postpaid. By freight or express, 20c per lb.

OCTOBER or HORTICULTURAL—A popular and productive variety for use as snaps or as shell beans. It is especially adapted for mountainous districts or where the season is short. Per lb., 30c, postpaid. By freight or express, 20c per lb.

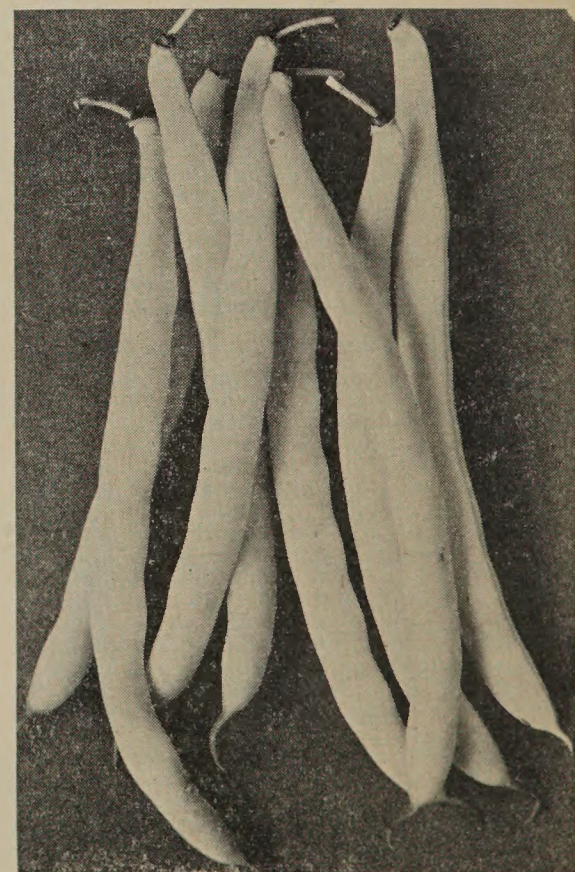
KENTUCKY WONDER GREENPOD—Brittle, stringless, meaty, delicious flavor. The plants are vigorous climbers; pods are borne profusely in clusters; they average from 7 to 9 inches long; are of attractive green color; round and very brittle when young. Pkt., 10c; lb., 30c, postpaid. By freight or express, 20c per lb.; 10 lbs., \$1.80.

WHITE CREASEBACK—Large, long pods, growing in clusters of from 6 to 12, of a silvery green, of the best quality of snaps. A good cornhill bean. Pkt., 10c; lb., 30c, postpaid.

MISSOURI WONDER—A late variety with 5-inch flat curved pod, color medium green. Meaty, stringy, good quality. Long bearing and productive. Pkg., 10c; lb., 35c, postpaid.



Burpee's Stringless Greenpod



Pencil Pod Wax

Garden Beans

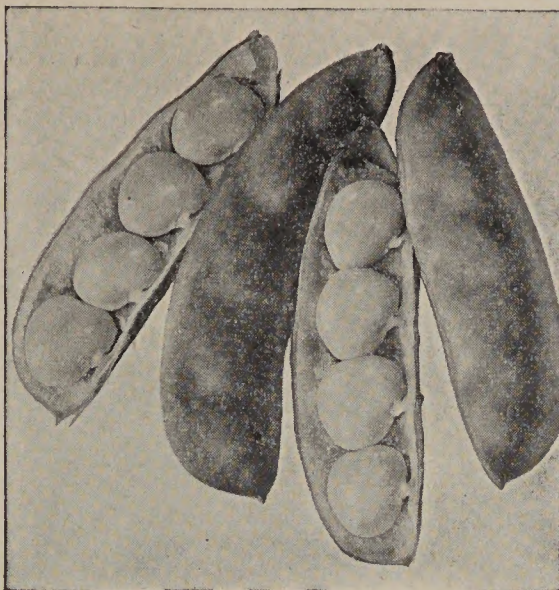
ROUND POD KIDNEY WAX—Especially fine for home gardens and canning. Plants of medium size, prolific. Pods $5\frac{1}{2}$ to 6 inches long; round, brittle, stringless, and of fine quality. Pkt., 10c; lb., 35c, postpaid.

PENCIL POD BLACK WAX—Rich yellow pods from 5 to 6 inches long; entirely stringless, very meaty and tender. Pkt., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.80.

IMPROVED GOLDEN WAX—Very valuable rust-proof strain of the Golden Wax which stands drouth remarkably well. Pkt., 10c; lb., 30c, postpaid. By express or freight, lb., 20c; 10 lbs., \$1.80.



Improved Golden Wax



Jackson Wonder Bush Lima



Broccoli

Broccoli

To have them early plant in a hotbed when you plant cabbage and set out when large enough; or plant outside the last of March, transplanting them 2 feet apart in rows.

ITALIAN GREEN SPROUTING—This variety develops in about 90 days, producing a large head, like cauliflower, consisting of a compact cluster of bluish-green flower heads. When the central head is removed the plant produces many branches, each bearing small heads. These are cut with 3 or 4 inches of the branch attached and tied in bunches for market. The stems as well as the flower heads are cooked and served like cauliflower. Pkt., 10c; oz., 50c, postpaid.

Dwarf Lima Beans

Plant when ground is dry and weather is warm in rows 2 feet apart, dropping the beans 6 inches apart in the row, eye down, covering with 1 inch of soil. One pound will plant 100 hills.

BURPEE'S BUSH LIMA—The stout, erect bushes grow from 18 to 20 inches high and 2 to 3 feet in diameter. They are laden with large, luscious beans. Pkt., 10c; lb., 35c, postpaid. By freight or express, lb., 25c.

HENDERSON'S BUSH LIMA—This is the earliest variety, being fully two weeks ahead of any other sort in maturing. The beans are small and very fine for canning. Pkt., 10c; lb., 30c. By express or freight, lb., 20c; 10 lbs., \$1.75.

JACKSON WONDER BUSH LIMAS—It is of true bush form, about 2 feet high, bearing greatest profusion of broad, flat pods, each having from 3 to 5 medium-sized flat, handsomely speckled beans, which cook quickly and are of superior flavor. Pkt., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.75.

Pole Lima Beans

CAROLINA or SIEVA POLE—(Small White Beans)—Vigorous variety; very early and productive. Pods are short, flat and curved; beans white, small and kidney-shaped. Pkt., 10c; lb., 35c, postpaid. By freight or express, lb., 25c.

KING OF THE GARDEN—(Large White Lima)—An improved strain of the large white, of more prolific character and with larger pods and beans. Pkt., 10c; lb., 35c, postpaid. By freight or express, 35c per lb.

SPECKLED POLE LIMA—The most prolific of the Pole Limas. Seeds are about the size of the Sieva, but are speckled white and brownish red. Pkt., 10c; lb., 30c, postpaid. By freight or express, lb., 25c; 10 lbs., \$2.00.

If you want one peck (15 lbs.) or more Beans, write for prices.

Brussels Sprouts

Brussels Sprouts are a very delicate vegetable, and deserve a more general cultivation than they receive. The plant belongs to the cabbage family and should be grown and cultivated like miniature cabbages. Very hardy; improved by frost. An ounce will produce 2,000 plants.

DWARF IMPROVED—Bearing a small crop of small, solid, and tender heads. Pkt., 5c; oz., 15c, postpaid.

Perfection Brand Delicious Beets

Beets grow in moderately light, sandy soil. For very early crops, sow in hot-beds and transplant the seedlings as soon as the weather is warm enough into open ground; for regular crop, plant outside as soon as the ground is in good condition; plant in drills 12 to 15 inches apart and cover about 1 inch deep. When the seedlings are 4 to 5 inches high, thin them out to stand 4 to 5 inches apart in the row. An ounce of seed will sow 50 feet of drill; 5 to 6 pounds to the acre.

EARLY WONDER—A very early dark red beet similar to Crosby's Egyptian. Its earliness and deep color make it a favorite with the market gardeners. The taproots are small and the roots are of a desirable shape for bunching. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., 80c, postpaid.

DETROIT DARK RED—Very popular sort used extensively by market gardeners as well as private planters. It matures early, and the roots are of splendid shape and good color. The tops are small and upright-growing, which makes possible close planting. The roots are globular and smooth, the skin is dark blood red, the flesh red with lighter zones. The beets are very tender, firm and crisp, and remain so for a long time. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., 80c, postpaid. By freight or express, 70c per lb.

CROSBY'S EGYPTIAN—The market gardener's favorite. Fine, globe-shaped roots. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., 80c, postpaid. By freight or express, 70c per lb.

ROOT CROPS FOR STOCK AND POULTRY

Mangel Wurzel is listed under Farm Seeds. see page 24 of this catalog.



Crosby's Egyptian

EARLY BLOOD TURNIP—Coming in at the same time as the small flat Egyptian, it is much larger and almost globe-shaped—a much better beet for every purpose. It is fine-grained, very tender, and of good, sweet flavor. The color of the flesh is a rich red, tinged with crimson. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., 75c, postpaid. By freight or express, 70c per lb.

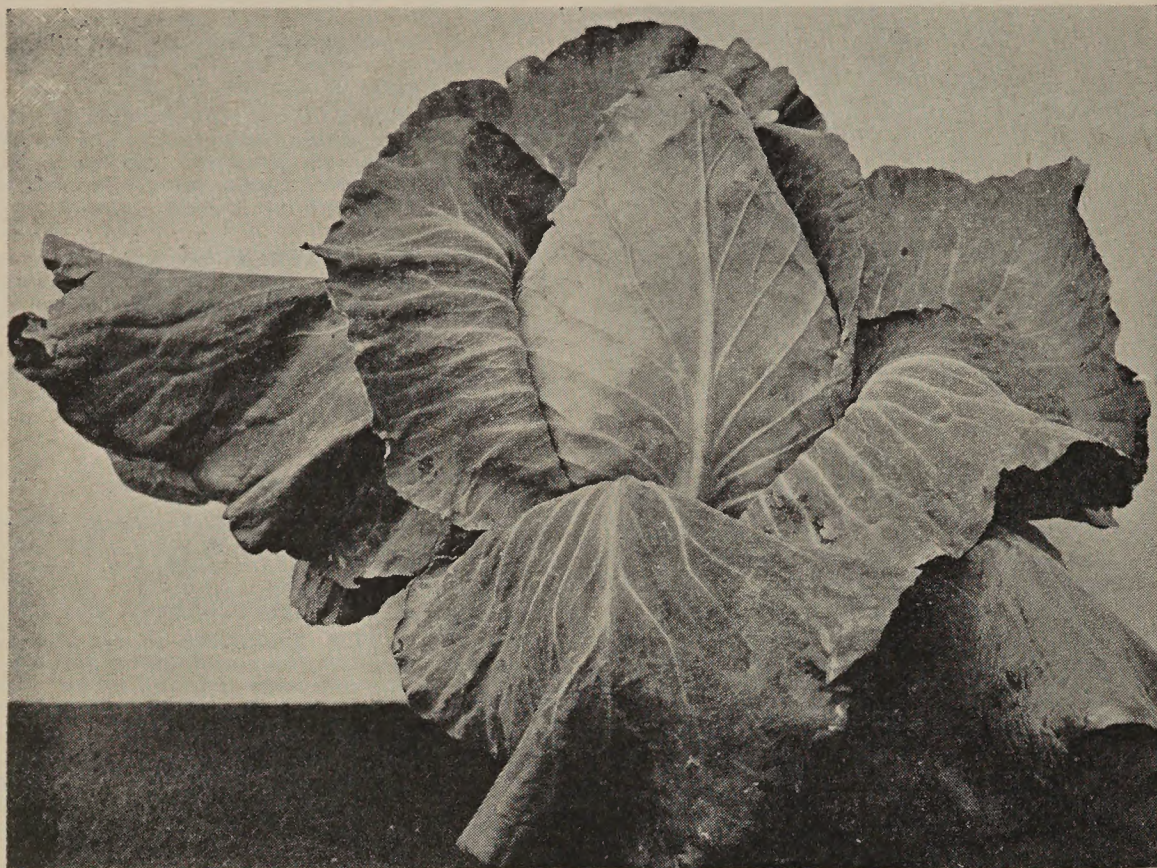
Swiss Chard or Spinach Beet

Swiss chard is the best "greens" follow-up for spinach, and will stand the hot weather without losing its crispness.

This delicious and useful vegetable should be in every garden and on every market stall. It is really two distinct vegetables. First the leafy part of the foliage is cooked and served the same as spinach, while the stalks are cooked and served with drawn butter, like tender asparagus. It grows about $2\frac{1}{2}$ feet high. The stalks are thick and broad like rhubarb; the leaves are large and heavily crumpled, like Savoy Spinach. Crisp and tender, pleasing flavor. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 30c; lb., 85c, postpaid. By freight or express, 75c per lb.

Perfection Brand Delicious Cabbage

Soil for Cabbage should be a rich heavy loam, with good drainage. Such a soil when supplied with a liberal quantity of stable manure and complete fertilizers will produce excellent crops.



Charleston Wakefield

Cauliflower

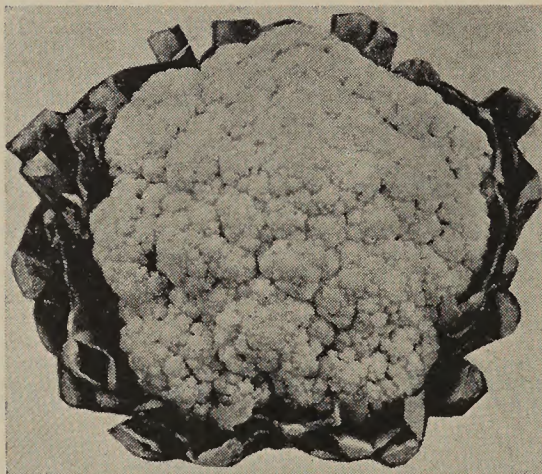
It requires a cool, moist season for its best growth, a constant supply of soil-moisture, and rich, loamy land, well fertilized. Cultivation is the same as cabbage. One ounce will produce from 800 to 1,000 plants.

EARLY SNOWBALL—Under favorable conditions every plant produces a magnificent white head of fine quality. Pkt., 10c.

Celery

Seed should be sown in February in hot-beds or in flat boxes filled with clean, mellow loam, with about one-eighth inch of fine soil or sand, pressing it down firmly. Keep the soil moist constantly. When plants are fairly out of the seed leaf, transplant into another box or bed, or thin out to 2 or 3 inches apart. Plant into the open ground by the last of May or the beginning of June. One ounce will sow 300 feet of drill.

GOLDEN SELF-BLANCHING—The plants are compact, semi-dwarf habit and form numerous stalks. They are heavily ribbed, of golden yellow color, very crisp and tender. Pkt., 10c; oz., 40c.



Cauliflower—Early Snowball

Perfection Brand Improved Carrots

Carrots grow best in rich, deep sandy loam, well pulverized and deeply cultivated. Sow in March or April, in drills 15 to 18 inches apart and about one-half inch deep, thinning out the lings to 4 inches in the row. One ounce will sow 100 feet of row; 3 or 4 pounds to the acre.

CHANTENAY—Red Cored 70 days. Fine grained flesh of a deep or reddish orange. The core is so small as to almost warrant the name coreless. Pkt., 5c; oz., 10c; ¼ lb., 25c, postpaid.

EARLY SCARLET HORN—This variety is the first ready for the table in the home garden. The tops are small, dark green. The orange-red roots are short and top-shaped, and when picked while young they are very tender. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 90c, postpaid.

DANVERS HALF LONG—An excellent market variety of medium size. The roots are of a rich orange-red color, smooth, and very handsome. Produces a very large crop. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 95c, postpaid.

EARLY CHANTENAY—A fine bunching carrot. One of the best early sorts, maturing

between the Oxheart and Danvers. The carrots grow about 6 inches in length, stump-rooted, very smooth, deep red, fine-grained, sweet and sugary. Market gardeners should grow these for their main early crop. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 90c, postpaid.

IMPERATOR—74 days. A recent introduction for market garden use and long distance shipping. Tops medium length, strong. Roots 7 to 9 inches, sloping shoulders tapering to semi-blunt tip. Exterior smooth, color rich orange. Interior deep orange which extends to core. Good quality. Pkt., 5c; oz., 10c; ¼ lb., 30c, postpaid.

OXHEART or **GUERANDE**—Of fine table qualities. It is the most desirable sort for growing in soils too hard and stiff for the longer varieties, as it does not grow over 6 inches long, and is easily pulled by hand. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 90c, postpaid.

Extra Early Varieties

TRUE EARLY JERSEY WAKEFIELD—Small, cone-shaped head; matures in from 90 to 100 days after planting. Pkt., 5c; oz., 15c; ¼ lb., 50c, postpaid.

CHARLESTON WAKEFIELD—Selection from Early Jersey Wakefield, only it is about one week later than that popular variety, and grows larger heads. Very solid and of fine quality. Pkt., 5c; oz., 15c; ¼ lb., 50c, postpaid.

COPENHAGEN MARKET—The earliest large round-headed cabbage. Very popular with market gardeners. An extra early summer cabbage, matures fully as early as the Early Jersey Wakefield, but produces larger heads, often averaging 10 pounds or more. The heads are ball-shaped, mild and firm, with small core, and of splendid quality. Leaves are of light green color, tightly folded together, forming a very compact head. Pkt., 10c; oz., 20c; ¼ lb., 60c.

GOLDEN ACRE—Very early, of the Copenhagen type, flat head, but about eight days earlier than the Copenhagen. This extra earliness assures higher prices for the market gardener—and more tender, more crisp, and better flavored cabbage for the table. Pkt., 10c; oz., 15c; ¼ lb., 50c, postpaid.

Second Early Varieties

EARLY FLAT DUTCH—A selected strain; forming large flat heads, weighing at times 10 to 12 pounds. Pkt., 5c; oz., 15c; ¼ lb., 50c, postpaid.

ALL SEASONS—One of the best of its class. The heads are fine, solid and of good flavor. Pkt., 5c; oz., 15c; ¼ lb., 50c, postpaid.

Late Varieties

PREMIUM LATE FLAT DUTCH—Of good flavor and very tender; among the earliest of the winter cabbages. Pkt., 5c; oz., 15c; ¼ lb., 50c.

SUREHEAD—Strain of flat Dutch, remarkable for its heading qualities; keeps well and is good for shipping. The heads are of uniform size, firm and of good color. Pkt., 5c; oz., 15c; ¼ lb., 50c, postpaid.

MAMMOTH RED ROCK—The best red cabbage for pickling or table use. Pkt., 10c; oz., 30c; ¼ lb., 75c, postpaid.

PE-TSAI CHINESE OR "CELERY" CABBAGE—Pe-Tsai produces beautiful, crisp, celery-like heads that blanch easily and resemble a giant Cos lettuce. Sow seed in any good soil the first of August, making rows 24 to 36 inches apart and thinning to 15 inches apart in the row. Pkt., 5c; oz., 10c; ¼ lb., 30c, postpaid.



Carrot—Danvers Half Long

Collards

GEORGIA—An old stand-by in the South. For winter greens it has no equal; not in the best condition until touched by frost. Sow in July or August, transplant in rows, setting them 2 feet apart. Pkt., 5c; oz., 10c; ¼ lb., 25c, postpaid.

Corn Salad

CORN SALAD—Use for "greens" like Spinach or as a salad. Can be sown in the spring and fall. Succeeds best when sown in the early spring and in August. Can be sown in September and wintered like Spinach if given a little protection.

LARGE ROUND LEAVED—The best variety. Matures in 4 or 5 weeks. Pkt., 5c; oz., 15c; ¼ lb., 35c.

Perfection Brand Egg Plant

Seed should be started in February, in boxes in the house. Always keep the ground warm and moist, and protect the young plants. Transplant into a rich, loamy soil when all danger of frost is past. One ounce will produce about 1,000 plants.

NEW YORK IMPROVED PURPLE—One of the best and largest varieties in cultivation. The plant is robust, low-growing, branching freely, and bears long, oblong-shaped fruits. Pkt., 10c; oz., 50c, postpaid.

BLACK BEAUTY—Ten days or two weeks earlier than the preceding with fruits just as large, of a uniform and rich, lustrous black color. Pkt., 10c; oz., 50c, postpaid.

Perfection Brand Endive

ENDIVE FOR GREENS AND SALADS—Culture: For late spring and summer use, sow the seed in open ground during February or March. For fall use sow in July or August. Requires about 60 days to make a crop. This is a fine salad crop for your garden, and the leaves are used for garnishing and flavoring soup. Use a packet to 25 feet of drill.

IMPROVED GREEN CURLED—Finely fringed leaves of bright green color; tender and crisp when blanched. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

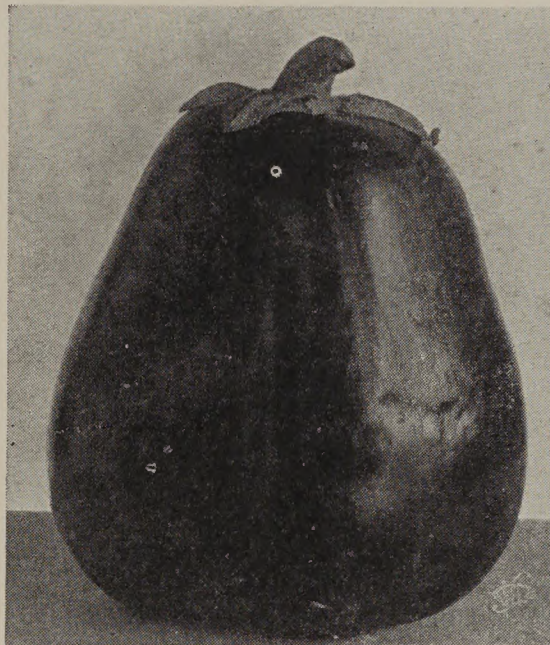
Cress

Sow curled or pepper grass thickly in shallow drills every two weeks. It should be cut often, and will continue to grow. Useful for salad and garnishing.

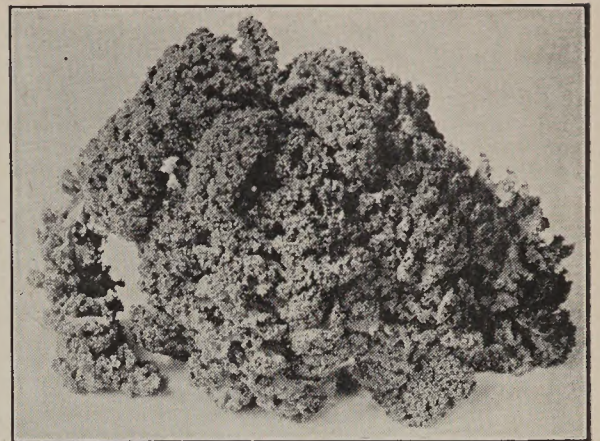
EXTRA CURLED or PEPPER GRASS—Quick-growing and crisp, pungent flavor. Does well in dry soil. Pkt., 5c; oz., 20c.

Dill

Every year there is such a demand for green dill that the supply is short of the demand. Plant in any quantity, from ten feet square to fifty feet square, but no more. Make several plantings to have it for market almost constantly and sell what you can of the green dill and dry the balance. First planting may be made about May 1st. Packet will plant three feet square; an ounce will plant 10 by 15 feet. Pkt., 5c; oz., 15c.



Egg Plant—New York Improved



Kale—Early Curled Siberian

Horseradish

Grown for its roots, which have a pungent mustard-like flavor. Small pieces of roots, 4 to 5 inches long, are planted for propagation. Plant in rich ground—the richer the better. 35c per dozen; \$2.50 per hundred.

Kale or Borecole

Loose, curly leaved type of the cabbage family; particularly noted for its hardiness. It makes excellent tender greens for winter use. In the South the hardy variety remains in the open ground all winter. Cultivated the same as cabbage. One ounce of seed is sufficient for 200 feet of drill.

EARLY CURLED SIBERIAN—The plant is dwarf, spreading, and very hardy, standing the winter without protection. The leaves are green, slightly tinted with purple, and of superior quality. Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 75c, postpaid. By express, 50c per pound.

Kohl Rabi

Grown for its thick, bulb-shaped stalks, which, while young, are prepared in the same manner as turnips, and which furnish a most desirable vegetable. Sow the seed in the spring in drills half an inch deep and two feet apart and when plants are a few inches high thin to 15 inches. Cultivate the same as for beets. One packet will sow about 30 feet in drill.

EARLY WHITE VIENNA—Pkt., 5c; oz., 15c, postpaid.

EARLY PURPLE VIENNA—Pkt., 5c; oz., 15c, postpaid.

Perfection Brand Sweet Corn

Corn, like anything else well worth having, takes a little care to produce. A few rows of corn will supply the average home with plenty of fine roasting ears and enough over for canning and drying to last through the winter. Be sure and plant Sweet Corn every ten days or two weeks and you will have a continuous supply of table corn in the right stage to enjoy the eating of it. A rich, warm soil is the best, but excellent Sweet Corn can be raised on any good, ordinary soil, if it is deeply and thoroughly worked before planting. One pound of seed will plant about 100 hills.

Our Sweet Corn is grown in Ohio by the most reliable grower and breeder of high grade Sweet Corn in the United States.

ADAMS EXTRA EARLY—A great favorite with those who wish the first corn of the season. Produces short ears, filled with tender, white kernels of fine flavor. Pkt., 10c; lb., 25c, postpaid.

GOLDEN EVERGREEN—A cross between the well known Golden Bantam and Stowell's Evergreen. A corn that has the color and deliciously sweet flavor of the Bantam and the evergreen habit and tenderness of the Stowell's. The ears are larger than the Bantam, with Evergreen type of ear, with 14 to 18 rows of deep, sugary, rich yellow grains. Pkt., 10c; lb., 30c, postpaid.

GOLDEN BANTAM—The stalks are of medium size, with heavy foliage, for forage. The ears are borne two to a stalk about 6 inches in length and are eight-rowed. The kernels are of golden yellow color, which at first gives the impression of field corn. However, as soon as tasted there is immediately a call for more. Pkt., 10c; lb., 30c, postpaid.

BARDEN'S WONDER BANTAM—An eight-row corn that is a decided improvement over the Golden Bantam. Has all the toothsome qualities of looks and taste, but the ears are larger (eight to ten inches long), and set up higher on a more sturdy stalk, from 5 to 6 feet high. It is as early as the Golden Bantam, more vigorous and productive. Pkt., 10c; lb., 30c, postpaid.

ADAMS EARLY—Has larger ears than the preceding; very popular in the South. Pkt., 10c; lb., 25c, postpaid.

Ask for quantity prices on Sweet Corn.

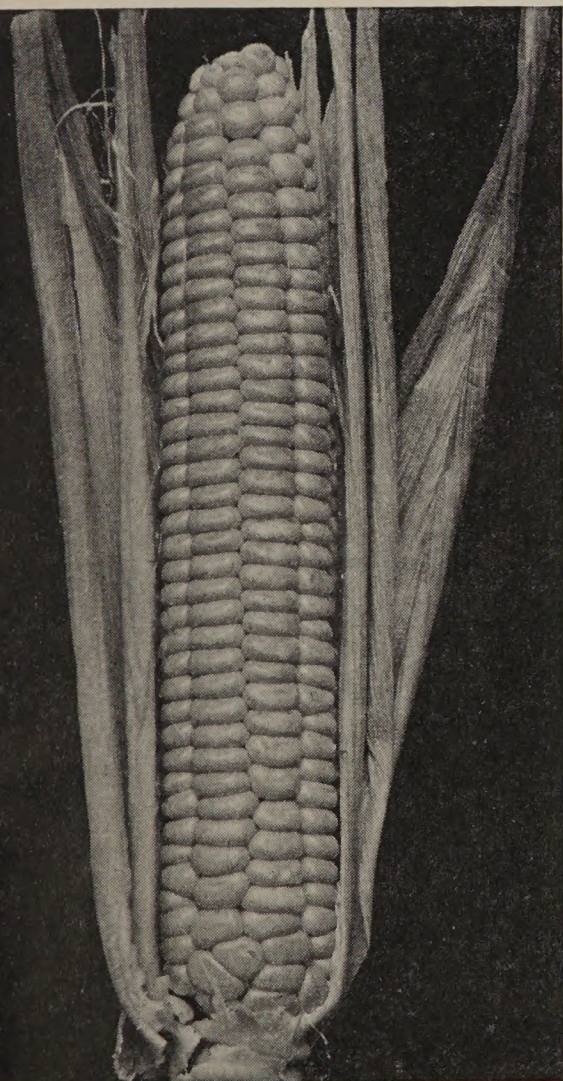
TRUCKERS' FAVORITE—For a second early corn to follow Adams Early, or for late planting to mature early, this is a good sort. In addition to being a fine corn, it makes an excellent field corn to plant late. Lb., 25c, postpaid.

STOWELL'S EVERGREEN—The ears are large; have fifteen or more rows of deep, luscious kernels, and remain tender and fit for use longer than any other sort. Pkt., 10c; lb., 30c, postpaid.

BURBANK BANTAM TOP CROSS HYBRID—Hybrid corn is developed by inbreeding and selection, covering several years, which develops a greater vigor and uniformity than the old varieties. Burbank Bantam ears are 7 to 8 inches long, with 12 to 14 rows of deep yellow kernels. Fine flavor. Stalk grows 5 to 6 feet, thrifty and vigorous. Matures in 75 to 85 days. Pkt., 10c; lb., 40c, postpaid. By freight or express, lb., 30c; 10 lbs., \$2.85.

COUNTRY GENTLEMAN—The most delicious of the late sorts. The medium-sized ears are covered with irregularly arranged, deep, sweet kernels. Very prolific, and well liked in some localities, where it is sold on the market as the "Shoe Peg." Pkt., 10c; lb., 30c, postpaid.

GOLDEN CROSS BANTAM HYBRID—Ears 8 to 9 inches long, 10 to 14 rows of light golden kernels. 84 days. Has the quality of Golden Bantam but is larger in both plants and ears. It is resistant to bacterial blight and highly productive. Pkt., 10c; lb., 35c, postpaid.



Corn—Barden's Wonder Bantam

Perfection Brand Cucumbers

Plant as soon as the weather has become settled and warm, in hills 4 feet each way. Cucumbers succeed best in warm, moist, rich, loamy soil. Prepare the hills by mixing a shovelful of well-rotted manure with the soil; plant the seeds about half inch deep. When all danger of insect attack is over, thin to about three or four of the strongest plants to the hill. Do not allow any fruit to ripen on the vines, as this will cause them to stop bearing.

EARLY FORTUNE—One of the best cucumbers on the market. Fruit is slightly tapering and about nine inches long. The firm, crisp, thick flesh is very white and has very few seeds. Early Fortune has a rich, dark green color which does not fade when shipped to distant markets. The vines are vigorous, very productive and blight resisting. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00, postpaid.

LONGFELLOW—Particularly valuable for shipping. Fruits handsome; extremely dark green over entire surface; retains color remarkably long after picking; white spine; 12 to 14 inches long, 2½ to 2¾ inches thick. Straight, well filled at ends. Very few seed. Matures in 74 days. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

STRAIGHT EIGHT—Fruits are very symmetrical, almost cylindrical, with well rounded ends. Ready for market in 58 days, it carries an intense dark green color which it holds for some time. A fine market sort 8 inches long, 2 inches in diameter. Pkt., 5c; oz., 10c; ¼ lb., 30c, postpaid.

IMPROVED KLONDIKE WHITE SPINE—The vines are very vigorous and productive; the fruit is of an attractive, deep glossy green color, with light spines running from blossom end. Most desirable for the market use. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

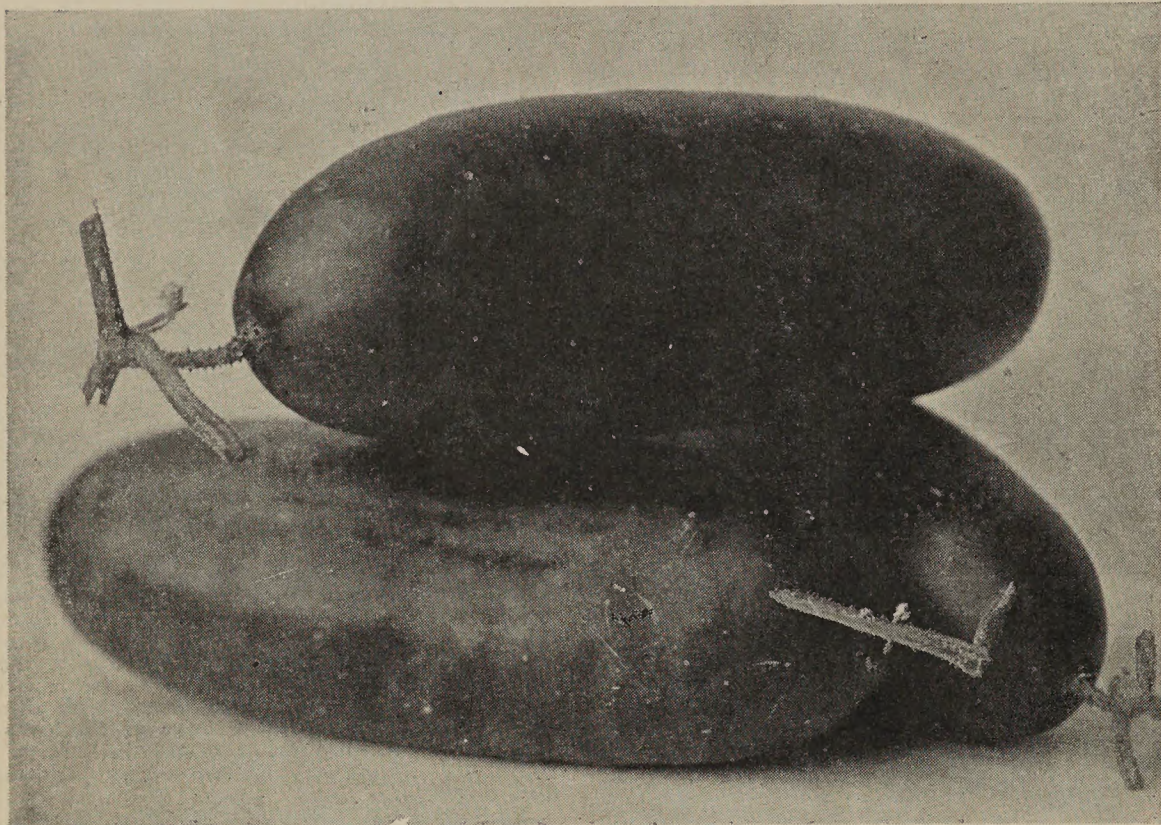
EARLY CLUSTER—Extra prolific sort; setting its fruits in clusters of two or three. The fruit is a dark green, short and particularly suitable for pickles. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

WEST INDIA GHERKIN—A very prolific, small fruited variety, used exclusively for pickling. It is not properly a cucumber, and is of no value for slicing. The fruits are 2 to 3 inches in length, thick and rounded, closely covered with spines. Pkt., 5c; oz., 20c; ¼ lb., 60c.

IMPROVED LONG GREEN—Most widely cultivated sort; unsurpassed for general use. The cucumbers average 10 inches long when fully developed, and are fine for slicing. The smaller fruits make excellent pickles. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00, postpaid.

JAPANESE CLIMBING—The strong vines, throwing out numerous tendrils, can be trained upon a trellis or poles, which will insure earlier ripening and a straight, handsome form in the large fruits. Pkt., 5c; oz., 20c, postpaid.

CHICAGO PICKLE—Largely used by pickle manufacturers. Prolific, short, with fruit of medium size, dark green color, and with prominent spines. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.



Cucumber—Early Fortune

Perfection Brand Lettuce Is Crisp and Tender

IMPROVED HANSON—One of the best for growing during the hot summer months, as it will stand heat and dry weather to perfection. Light green color outside and white within; tender, crisp. Pkt., 5c; oz., 15c; ¼ lb., 35c, postpaid.

BIG BOSTON—Very distinct variety, grown largely in the South as a winter lettuce. Light green color and quite tender when well grown. Outside is a less distinctive heading sort, the plants bearing vigorously, growing to a good size and forming loose heads. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

PRIZE HEAD—The outer leaves are bright and green, shaded with brownish red. They are large and thin, attractively curled, and very tender. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

PARIS WHITE COS—The Cos lettuce differs entirely in shape from the other varieties, the head being elongated and of a conical form, 8 to 9 inches in height and 5 to 6 inches in diameter. Pkt., 10c; oz., 20c; ¼ lb., 50c, postpaid.

EARLY CURLED SIMPSON—Forms close, compact bunches of effectively curled leaves. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

Lettuce is a cool-season crop that must grow fast in order to be crisp and fresh when ready for the table. Sow seed as early as possible in rich soil, for there is no better crop than the first in the spring.



Big Boston

GRAND RAPIDS—The well-known forcing variety for the Middle West, where the butterheads or cabbage varieties do not grow very well under glass. It is a loose-branching variety, forming no definite head; is extremely curly, and its light green color is very attractive. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00.

CHICKEN LETTUCE—The plant grows very much like kale, to a height of four or five feet, with much growth of leaf. It is used mainly for chicken and rabbit feeding. It does not head and it is seldom if ever used for table purposes. The wonderful leaf growth makes it ideal for green food for chickens. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., 95c.

NEW YORK—A favorite variety. Heads very large, heavy and compact. Has a vigorous root system, which enables it to stand hot weather better than other varieties. The interior is beautifully blanched, creamy white, crisp and tender, and free from any bitterness. Pkt., 5c; oz., 25c; ¼ lb., 65c, postpaid.

BLACK SEEDED SIMPSON—Makes large bunches of curly, crisp leaves. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

Perfection Brand Cantaloupes are Luscious

A warm, sandy loam is best for raising melons. Plant early in the spring, 8 seeds in each hill. After they are well started thin to about 3 plants to each hill. An ounce will plant 60 hills; 2 or 3 pounds to the acre. We strive to supply melon seed of the highest quality. We have them grown where they reach the highest point of perfection by the most reliable growers, and are in a position to offer strains far superior to the commonly sold commercial grades. Many testimonials from thoroughly pleased customers show that our efforts to supply only the best are appreciated.

ROCKYFORD—This is the melon that made Rockyford famous. The flesh is green, very deep, solid and sweet, and can be eaten close to the rind. The seed cavity is very small. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 85c, postpaid.

OSAGE, or MILLER'S CREAM—One of the finest and most popular salmon-fleshed Muskmelons. The fruits are large, usually nearly three times the size of the Rockyford, with skin moderately netted and of oblong shape. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 90c, postpaid.

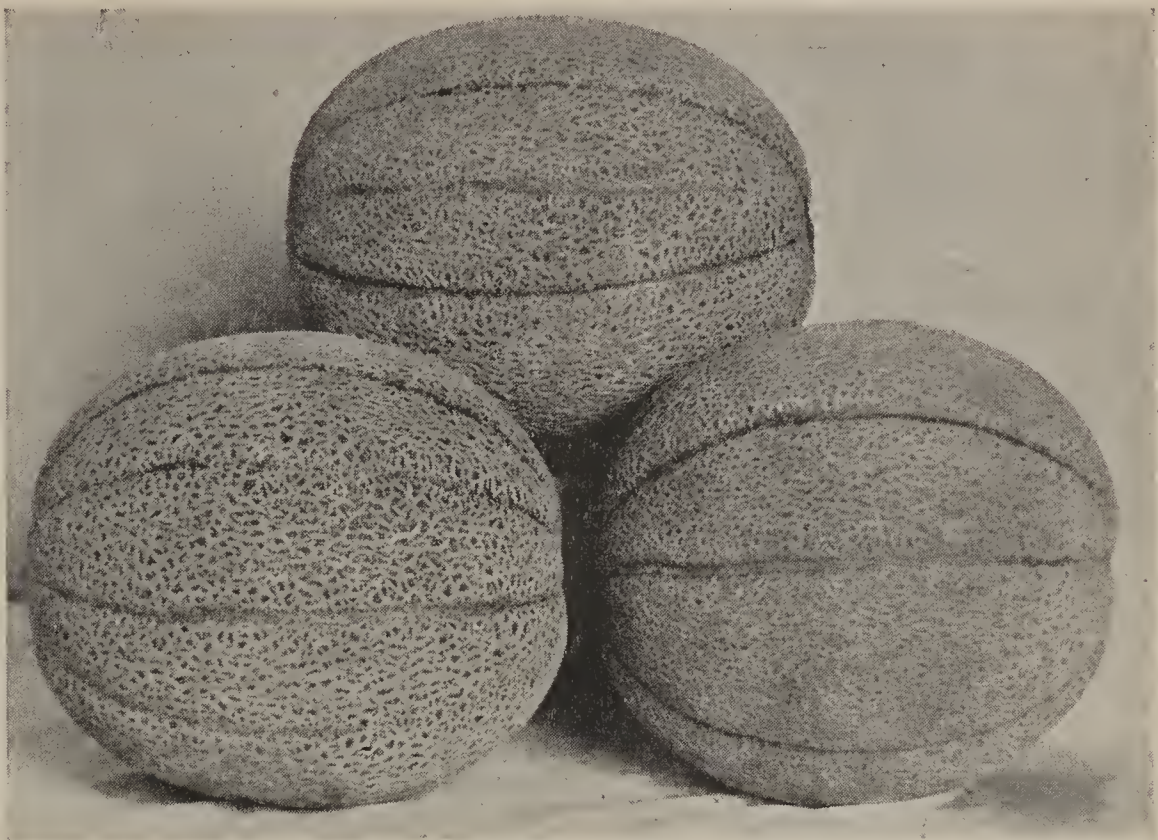
IMPROVED BANANA—Produces fruit of the finest quality, 1½ to 2½ feet long; rind thin and comparatively tough; flesh of a beautiful reddish salmon color, of excellent flavor; withstands the heat to perfection; fine for family use. Pkt., 5c; oz., 20c; ¼ lb., 50c, postpaid.

PERFECTED PERFECTO—Undoubtedly the "last word" in the Rockyford type of shipping cantaloupe. The flesh is almost solid, with the smallest seed cavity of any type. The fruits are remarkably uniform in size and shape, nearly round, densely covered with hard gray netting. It is an outstanding early market variety, highly recommended for its hardiness, prolificness, deep rich orange-tinted flesh, unexcelled eating and shipping qualities. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10, postpaid.

HALES BEST No. 36—Is the standard of its class. Ready for the market in 85 days. Solidly netted, no ribs. The rich, spicy salmon flesh is deep, fine grained and will hold up well for long distance shipping. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10, postpaid.

HEARTS OF GOLD—This melon runs very uniform in size and is a splendid shipping variety. The melons are oval to oblong in shape and are a little larger than the Rockyford. While it is a ribbed melon the ribs are not prominent and the melons are very heavily netted. The flesh is rich orange color, fine grain and of excellent flavor. Seed cavity is small. It doesn't turn yellow when ripe, but retains its natural color and remains solid and firm for days after it is picked from the vine. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10, postpaid.

NEW IDEAL CANTALOUPE—This new strain was developed several years ago from a perfect cantaloupe found in a seed field of Hale's Best. By careful selection the grower has developed a commercial cantaloupe which we believe outclasses any early variety introduced to date. It is very prolific, oval in shape, practically all solid net. Flesh is deep salmon color, firm fine grained. Small seed cavity and excellent flavor. Matures its first melons in 80 to 90 days. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10, postpaid.



Hearts of Gold

HONEY DEW MELON—The fruits are of medium size, round or slightly oval, 5 to 6 inches in diameter and weigh about 6 pounds each. Flesh light emerald green, fine grained and of very sweet, sugary flavor. Rind thin but very firm and the fruit stands shipping remarkably well. If picked shortly before mature the fruits will keep for several weeks. Matures about two weeks later than Rockyford. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.25.

Perfection Brand Watermelons for the South

Our watermelon seed is grown especially for us in the South and selected from the very best melons. Southern-grown watermelon seed is always the best and the quality of the melons the very highest, as has been proven. A trial order will convince you our seed is first-class in every respect.

MOUNTAIN HOOSIER is a large round melon, in color a very rich dark green with a slightly bluish bloom. Flesh deep bright red, seed white with black points and slight black markings. Quality is excellent. Weight up to 60 lbs. Vines are hardy and prolific, the melons very attractive in appearance and the red meat is sweet, free from stringiness, of good texture and usually cut solid. Shy seeder. Pkt., 10c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.

DIXIE QUEEN—A new round melon of striking appearance. Light and green striped, very showy. Thin tough rind; flesh bright scarlet, solid, of fine texture. Quality unsurpassed. Seed very small, white. Vines very vigorous, prolific. Melons uniform in size and appearance, 30 to 40 lbs. Destined to become a leader for home gardens, local markets and shipping. Has fewer seed than other varieties. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

NEW WONDER—It is all its name implies. Is well adapted to Southern conditions and for a shipping melon it can't be beat. The rind is tough and will withstand rough handling in transit, besides being a heavy cropper. It is a large, long, dark green melon, faint stripes, making a quick seller on the market. Flesh red, very crisp, solid and early. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 80c, postpaid.

IMPROVED KLECKLEY'S SWEET—One of the earliest, best and sweetest flavored melons in cultivation. On account of its thin rind, it will not stand shipment to distant markets, but it is the best that can be grown for the home and near-by markets. The skin is dark green. The flesh is scarlet, firm, solid and of delightful flavor. Pkt., 5c; oz., 10c; lb., 75c; 10 lbs., \$6.50, postpaid.

TOM WATSON—The most popular shipping melon grown. The melons are large, long and green, like Kleckley's Sweet, but with a tougher rind, giving it excellent shipping qualities. The flesh is a rich red, solid, sweet, and luscious, and ripens up close to the rind. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

ARNELL WATERMELON—Originated by Mr. Arnell of Tulsa County. The rind is mottled greenish gray, flesh red and of excellent quality. The rind is tough, making an excellent shipping melon, is productive and uniformly oblong in shape. Price, 10c per oz., ¼ lb., 25c; ½ lb., 75c; lb., 85c, postpaid.

FLORIDA GIANT—The flesh is rich red, seeds black, quality usually very good—under favorable weather and soil conditions excellent. Grows round and extra large. Sometimes 70 pounds or better. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.



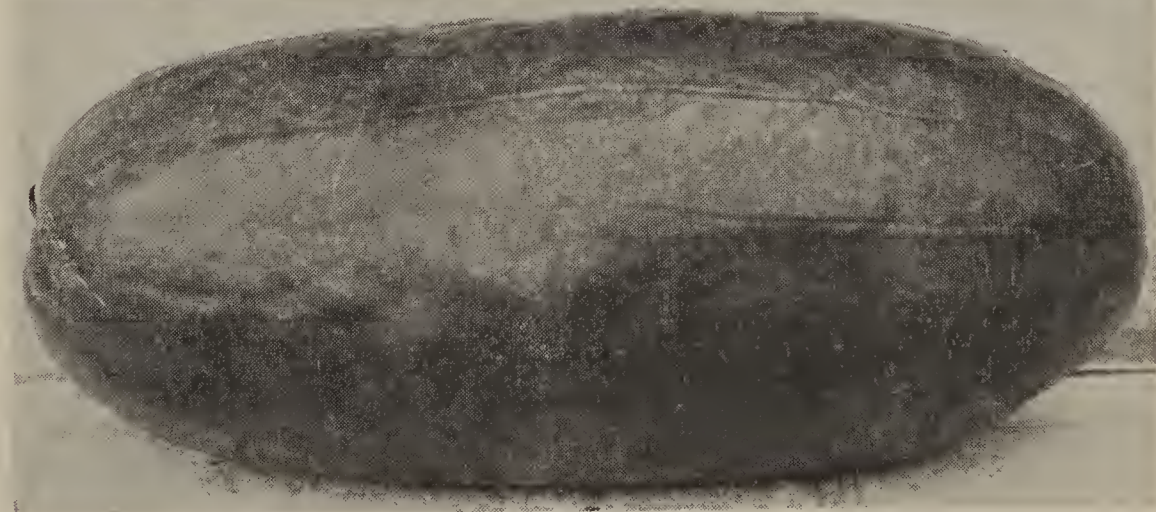
Dixie Queen

PORTO RICAN—A golden fleshed melon, very tender and has a most delicious flavor. It is medium early, of large uniform size, oblong shape. This has no hard core or stringy sections. Pkt., 10c; oz., 20c; ¼ lb., 50c, postpaid.

STONE MOUNTAIN—While this melon is rather new it is fast becoming a great favorite in many sections of the South, Middle West and Southwest. It grows large; rather round in shape and dark green in color. The flesh is a deep red, has but few seeds and the flavor is all that could be desired. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 80c, postpaid.

SMITH WATSON—Grows in shape and size about the same as the regular Watson, but has distinct markings in the form of irregular stripes. A good shipper and eating quality, considered better than other types of Watson. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00, postpaid.

EARLY KANSAS—The flesh is a rich red color nearly to the rind and has a wonderful flavor. Shape is a large oval, almost round with lock ends; the rind is a dark green color with alternate stripes of a lighter shade. Average maturity 80 to 85 days. Melons weigh 30 to 35 pounds. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.



Improved Kleckley's Sweet

Perfection Brand Mustard for Health

Mustard is grown for greens and requires a loamy, rich soil, preferably a sandy loam. It is sown either broadcast or in drills; if it is sown broadcast about 8 quarts of seed are required per acre, if in drills, 3 pounds per acre.

MUSTARD SPINACH—Sometimes known as Tender Greens. This new vegetable, which is all its name implies, is a very mild mustard with a creamy spinach flavor. Mustard Spinach grows fast. The leaves are ready for cutting three to four weeks after planting. Dry, hot weather does not injure the crop. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

SOUTHERN GIANT CURLED MUSTARD—Long Standing type. This is a decided improvement over the old curled mustard as it will stand ten to fourteen days later before bolting to seed. Pkt., 5c; oz., 10c; lb., 50c, postpaid.

OSTRICH PLUME—Most beautiful variety and of very superior flavor. The leaves are beautifully ruffled and curled and curve outward like graceful ostrich plumes. They are excellently adapted for garnishing. Pkt., 5c; oz., 10c; lb., 55c, postpaid.



Southern Giant Curled

ELEPHANT EAR—Desirable kind. Each plant produces extra-large leaves of good substance and of most appetizing pungency. It succeeds well also from spring sowings, but does not make so large a plant during the warm summer as it does in the cooler fall or winter months. When they are grown in rich soil, the leaves attain sixteen to twenty inches in length; they are of light green color, with large white ribs or leaf stalks. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c, postpaid.

FLORIDA BROAD LEAF—Plants are rather tall and upright growing, and produce considerable more leaf growth than other varieties. The leaves are large, broad, comparatively smooth and have broad, distinct midribs. This variety is quite distinct in that it stays in condition without bolting to seed considerably longer than most other sorts. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c, postpaid.

Perfection Brand Onion Seed

One ounce will sow 100 feet of drill, 4 pounds will sow an acre. We pride ourselves on selling the very best onion seed that can be produced, and are now supplying some of the largest onion-growers in the country. By sowing our seed, large onions can be produced direct from the seed.

CULTURE—Sow in the early spring, in rows 12 inches apart, and cover half inch moist soil, as soon as the weather will permit, deep. If the onions grow too thick, thin to 1 inch apart, or only a very few onions will be the result. Manure highly (twenty loads to the acre being used by many market gardeners with profit), and if manure is not plentiful, some good phosphate, at the rate of 400 to 800 pounds per acre will give good results. A top dressing of wood ashes, applied after the second weeding, is very beneficial.

GIANT YELLOW PRIZETAKER—The American-grown Giant Yellow Prizetaker is far the handsomest, most productive, most popular, and best of the yellow skin onions. The flesh is pure white, firm and fine-grained, and mild in flavor. It is of immense size, sometimes measuring from 10 to 12 inches in circumference. Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.50, postpaid.

SOUTHPORT LARGE RED GLOBE—This handsome and most red-colored of all red sorts is becoming more popular every season. It is of a rich, glossy dark red, and makes a very attractive appearance. The bulbs are remarkably uniform in size and are splendid keepers. Pkt., 10c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.

CRYSTAL WHITE WAX BERMUDAS—Genuine Teneriffe grown. A beautiful crystal white with the decided waxy appearance. It is the earliest of the Bermuda varieties, and makes large flat onions; so mild and sweet that they can be eaten like an apple. Pkt., 10c; oz., 20c; ¼ lb., 70c; lb., \$2.00, postpaid.

LARGE RED WETHERSFIELD—The most widely cultivated of the red varieties; the standard winter onion in many Northern States. The bulbs are well flattened, thick through and grow to a good size. A most excellent keeper. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

Shallow and frequent sprinkling causes plant roots to seek moisture near the surface—a very bad condition. Deep irrigation is to be preferred.



Valencia or Sweet Spanish



Onion Sets

Onion Sets

We Will Gladly Quote Prices on Large Quantities.

DARK RED SETS—Lb., 25c, postpaid; by freight or express, not prepaid, lb., 15c; 10 lbs. \$1.10.

YELLOW SETS—Lb., 25c, postpaid; by freight or express, not prepaid, lb., 15c; 10 lbs., \$1.10.

WHITE SILVERSKIN SETS—Lb., 25c, postpaid; by freight or express, not prepaid, lb., 15c; 10 lbs., \$1.10.

WHITE MULTIPLIER SETS—They are of a pure silvery-white color, enormously productive, frequently producing as many as twenty shoots for bunching from one bulb planted; of excellent quality and size for bunching. Lb., 40c, postpaid; by freight or express, 30c per lb.

Bermuda Onion Plants

Immediate shipment can be made from our growing station in Texas.

They may be set in the open field as early as you plant Onion Sets. Ask for prices on large quantities.

YELLOW BERMUDA PLANTS at 35c per 100; \$1.25 per 1,000; \$5.00 per 6,000, delivered by express.

CRYSTAL WHITE WAX PLANTS, 35c per 100; \$1.50 per 1,000; 6,000 for \$6.00, delivered by express.



Giant Yellow Prizetakers



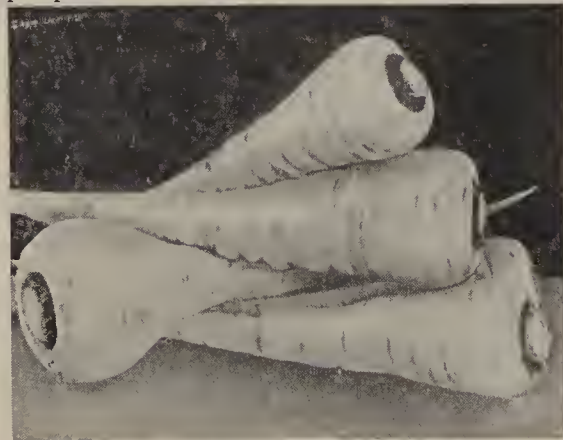
Okra—White Velvet

Perfection Brand Okra or Gumbo

The young, tender seed pods of this plant are used for flavoring soups, stews, etc. They are regarded as a household necessity in the South, but are neither so well known nor so extensively used in the North. Seed should be sown when the weather has become settled, in drills 3 feet apart. Thin out the plants so they will stand from 1 to 2 feet apart in the rows. Gather the pods while they are young, as they become tough and woody when they grow older. One ounce will sow 100 feet of drill.

WHITE VELVET—Tall-growing sort, with attractive long white pods, which are round and of velvety smoothness. Pkt., 5c; oz., 10c; ¼ lb., 20c, postpaid.

DWARF LONG POD—Bears in 50 days. Grows three feet high, strong stocky plant, sending out many branches. Very productive. Leaves and pods are dark green. Pods are 5 to 7 inches long, slender, corrugated and of excellent quality. Pkt., 5c; oz., 10c; ¼ lb., 25c, postpaid.



Parsnip—Hollow Crown

PERKINS' MAMMOTH LONG-PODDED OKRA—Pods shoot out from the stalk within 3 inches of the ground and the whole plant is covered with them to its extreme height. Pods are an intense green color, 9 to 10 inches long, very slim, and do not get hard. Pkt., 5c; oz., 10c; ¼ lb., 20c.

DWARF GREEN—Bears pods ready for use ten days or two weeks earlier than the tall sorts. The plants are of dwarf, stocky growth, and are very prolific. Pkt., 5c; oz., 10c; ¼ lb., 20c, postpaid.

Parsley

The leaves are used for garnishing meats, fish and other dishes, and as flavoring for soups and stews. Grows in any garden soil. Seed is of slow germination and should be planted early in spring in rows 10 inches apart. A few plants will supply a family.

MOSS CURLED—Leaves are very ornamental, curled and crimped; also excellent for seasoning. Pkt., 5c; oz., 15c; ¼ lb., 25c.

Parsnips

This is a hardy vegetable, used for food for both humans and stock. It is grown similar to the carrot, and requires a rich, loamy soil.

IMPROVED HOLLOW CROWN—A great cropper and considered the best for cultivation. The roots are long, smooth, tender, and very sugary. Pkt., 5c; oz., 15c; ¼ lb., 35c.

Perfection Brand Delicious Garden Peas

Peas require a good, well worked garden soil. Plant as early in the spring as the ground can be worked, for the early smooth seeded varieties, in rows about 8 to 10 inches apart and 1½ inches deep. The wrinkled varieties should be planted later as they require a warmer soil. One quart of seed is required for 100 feet of drill.

FIRST AND BEST—(Extra Early)—The vines average 18 to 24 inches in height, setting a good number of choice pods filled with choice peas of excellent flavor. Pkt., 10c; lb., 30c, postpaid; by freight or express, lb., 20c; 10 lbs., \$1.75.

LITTLE MARVEL—An extra fine dwarf sweet pea. A fine variety for either private or market garden. Extra early. Foliage and pods very deep green; pods 3 inches long, nearly round and square-ended, containing 7 very dark green peas of high quality; very productive. Pkt., 10c; ½ lb., 20c; lb., 30, postpaid; by express, lb., 20c; 10 lbs., \$1.75.

AMERICAN WONDER—The plants grow only 10 inches high and produce an abundance of medium-size pods, which are filled with large, sweet peas of luscious quality. Pkt., 10c; lb., 30c, postpaid; by express, lb., 20c; 10 lbs., \$1.75.

Let the children plan and tend their own gardens. It will keep them off the streets at a constructive mind and body building occupation.

Garlic

Used for flavoring soups, sausage, etc. It is propagated by division of the roots into small parts. The bulbs are gathered in August in the same manner as onions. ½ lb., 25c; lb., 45c, postpaid.

Leek

A very delicately flavored member of the onion family. The leafy portion of the plant is used for flavoring soups or boiling with meats while the white fleshy stems are boiled and either served with cream dressing or as a salad with vinegar and salad oil. Leeks prefer a rich, light soil. Cultivate the same as onions. Filling up will blanch the stalks and improve their quality. One ounce will sow about 100 feet of drill.

LONDON FLAG—A strong growing sort, hardy and excellent for winter. Pkt., 10c; oz., 30c, postpaid.

MELTING SUGAR—(Edible Pod)—In this variety, which is the best of its class, the entire pod is cooked the same way as string beans. The pods are large, flat, very brittle and tender and fine-flavored when cooked. The vines attain a height of 2 feet and are very attractive. Pkt., 10c; lb., 35c, postpaid.

THOMAS LAXTON—A cross between Gradus and Alsaka. In earliness it is two or three days behind Alsaka, and in yield, far superior. The pods are larger, containing sweet, large peas of fine flavor. Vines from 30 to 35 inches. Pkt., 10c; lb., 30c, postpaid; by express, lb., 25c.

LAXTONIAN—A dwarf pea with large handsome pods very similar to the Gradus, which variety it excels in yield and earliness. Vines average 15 inches in length, and the pods 3½ inches. One of the best peas for private or commercial growing. Pkt., 10c; lb., 30c, postpaid; by express, 20c; 10 lbs., \$1.75.

LAXTON'S PROGRESS—One of the earliest large podded, dwarf peas and excellent for home or market gardening. Vines grow about 16 inches, pods 4 inches long, broad and pointed. Makes in about 60 days. Pkt., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.75.

LARGE WHITE MARROWFAT—A very late sort that bears large quantities of well-filled pods. Pkt., 10c; lb., 30c, postpaid.

TELEPHONE—A large sort, with tall-growing vines. The pods are very large, with large peas of delicious flavor. Pkt., 10c; lb., 30c, postpaid.

ALASKA—The earliest smooth pea in existence. The pods are medium in size, well filled and mature practically all at one time. Our strain is extra selected. Pkt., 10c; lb., 30c, postpaid; by freight or express, lb., 20c; 10 lbs., \$1.50.



Peas—Laxton's Progress

Rhubarb, or Pie Plant

It is grown either from seed or by propagation of the roots. The soil for rhubarb should be made extremely rich, using manure every other season. The seed should be sown early in the spring in rows 12 inches apart and 1 inch deep. Thin the plants out to stand 5 inches apart and cultivate throughout the summer. In this section of the Southwest the plants get large enough to use in the fall from seed sown the previous spring, if the season has been favorable. The roots should

be planted 3 feet apart in the row and with the crown about 4 inches under the soil. One ounce of seed will sow 100 feet of drill.

VICTORIA GIANT—This is a very large and late variety with round stalks of great length and thickness; produces a succession of stalks the whole season; held high in the esteem of market gardeners. Pkt., 5c; oz., 15c; ¼ lb., 40c.

For RHUBARB ROOTS see page 13.

Perfection Brand Peppers

The young plants are raised like tomatoes or egg plant. They should be set out after all danger of frost is over and the ground is warm. Set the plants about 2 feet apart in rows 3 feet wide. One ounce of seed will produce about 1,500 plants.

PIMENTO PEPPER—It is so smooth and uniform in shape that the skin can be easily slipped off after burning over a hot fire a few seconds or by boiling a few minutes in hot water. In quality is it very sweet and delicious and entirely free from pungency; in color, when ripe, it is a beautiful green. It is much sought and grown by canners for pickles and pulp. Pkt., 10c; oz., 30c; 2 ozs., 55c.

KING OF THE NORTH—(60 days after setting plants)—One of the earliest of the large peppers. They will average 6 inches long and 3 inches across. Flesh is mild, thick, fine and sweet. The spreading plants are literally covered with large peppers often with 8 to 10 maturing at the same time. Pkt., 10c.

CHINESE GIANT—This is the largest mild red pepper in existence. The peppers are of enormous size; specimens weighing 18 ounces are found quite frequently. They are of square block form; the flesh is very thick and extremely mild. Pkt., 10c; oz., 50c; ¼ lb., \$1.50, postpaid.

LARGE BELL or IMPROVED BULLNOSE—A large early sort, with thick mild flesh. Pkt., 10c; oz., 35c; ¼ lb., \$1.00, postpaid.

RUBY KING—A very prolific sort bearing splendid crops of splendid large thick peppers of good quality for mangoes. Pkt., 10c; oz., 35c; ¼ lb., 90c, postpaid.

CALIFORNIA WONDER—Resembles Chinese Giant in the large size and "blocky" form of its fruit, but have an extremely thick flesh not possessed by that variety. Measures 4½ to 5 inches in length by 4 inches in diameter. Fruits are dark green, smooth in surface. The exceptionally thick flesh is mild and sweet. Pkt., 10c; ½ oz., 35c; oz., 60c, postpaid.

TABASCO—This is the variety which the famous Tabasco sauce is made from. The tall, bushlike growth produces a great number of small slender, very hot and fiery fruits about one inch long. Pkt., 10c; oz., 40c; ¼ lb., \$1.00.



Pepper—King of the North

LARGE RED CAYENNE—Bright red fruits 3 to 4 inches long, very hot. Pkt., 10c; oz., 30c; ¼ lb., \$1.00, postpaid.



Pumpkin—Small Sugar

Perfection Brand Pumpkins for Pies

Usually they are planted in the corn field, dropping three or four seeds every fourth hill, but they do better planted by themselves. Plant about 8 or 10 feet apart each way. Put some well-rotted manure beneath each hill, thoroughly mixing it with the soil.

SMALL SUGAR—Handsome and prolific, of small size, averaging about 10 inches in diameter; skin is a deep rich orange yellow, fine-grained, sweet, dry and an excellent keeper; a nice table variety. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 75c, postpaid.

TENNESSEE SWEET POTATO—A good variety for making pies and for other cooking purposes. It is of medium size, and of a white creamy color with excellent flavor. This is a good keeper. Pkt., 5c; oz., 10c; ¼ lb., 35c; postpaid.

LARGE SWEET CHEESE, or KENTUCKY FIELD—A popular and very productive variety. The ripe fruits are flat, of a rich, creamy yellow color, and measure about 2 feet in diameter. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 50c, postpaid. By freight or express, lb., 40c; 10 lbs., \$3.50.

KING OF MAMMOTH PUMPKIN—Also called Jumbo, Mammoth Prize or Mammoth Potiron. On good ground and under high cultivation this pumpkin frequently grows to an immense size. Notwithstanding the enormous size it is one of the best pie pumpkins, having very thick, sweet flesh which cooks quite dry and tender. To grow pumpkins of the largest size it is advisable to leave only one plant to a hill, leaving only one fruit to a plant, and give pumpkin plenty of room. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

IMPROVED GREEN-STRIPED CUSHAW—A crooked-necked variety, with green and white striped skin. The flesh is of a rich yellow color, solid, fine-grained, very thick and sweet. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., 85c, postpaid.

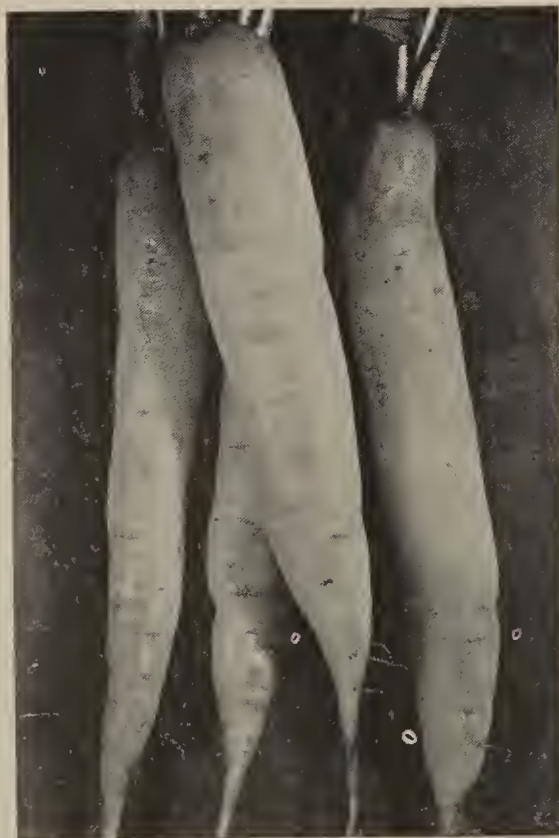
For the Best---Plant Perfection Brand Radish Seed

Our stock of radish seed is grown for us in Michigan. Great care is used in selecting this seed, and the quality is of the best. A trial will convince. They develop best and quickest in light rich sandy soil. Well rotted manure should be used and constant cultivation is necessary to insure radishes of good quality. One ounce will sow 75 feet of drill, 8 to 10 lbs. per acre. Plant radishes and carrots in the same row to conserve garden space.

CRIMSON GIANT—An entirely new variety and differs radically from all others, inasmuch as the roots attain more than double the size of the other forcing varieties without getting pithy or hollow. It is very early, notwithstanding its size. Color, crimson; meat, pure white and of the best quality. The seed should be sown very thinly to permit the development of the roots. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

LONG SCARLET SHORT TOP—Roots grow 5 or 6 inches long and are very attractive, crisp. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., 80c, postpaid. By freight or express, lb., 70c; 5 lbs., \$3.25.

WHITE STRASSBURG—An excellent summer radish; withstands severe heat and grows quickly. Skin and flesh pure white, firm, crisp and tender. Can be pulled five weeks from planting, but retains its crispness even when the roots are old and large. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 80c, postpaid.



Radish—Icicle White

ICICLE—The finest eating white radish; has long, slender, pure white roots, which remain fresh and crisp until they grow to a large size; tops are quite short, making it early, and allowing close planting. Icicle radishes are a good crop to follow the first globes. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c, postpaid.

EARLY FRENCH BREAKFAST—A beautiful olive-shaped sort of bright scarlet color, with well-defined white tip; a rapid grower; very mild and tender. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

SAXA—The earliest forcing radish and one of the slowest to shoot to seed. Round, bright scarlet and with the smallest possible top. Pkt., 5c; oz., 15c; ¼ lb., 30c, postpaid.

WHITE-TIPPED EARLY SCARLET TURNIP—For outdoor sowing this is the most important sort for the market, thousands of pounds being used annually. Our stock of this is the best. Handsome bright scarlet color, with white tip. Its fine appearance attracts customers and its quality always pleases. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c, postpaid. By freight or express, lb., 65c; 5 lbs., \$3.00.

If you have a vacant lot next door, or other space nearby, grow a vegetable garden. A plot 30 x 50 feet will provide most medium sized families with all the fresh vegetables they can eat, with plenty left over for canning.

EARLY SCARLET GLOBE—This is a splendid variety for hot-bed greenhouse culture. We consider it the best of the round scarlet forcing sorts. The radishes mature quickly, producing small growth of tops, and are solid and crisp; very uniform in shape. The color is a handsome bright scarlet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 65c; 5 lbs., \$3.00, postpaid.



Spinach—Bloomsdale

Perfection Brand Radish Seed



Radish—Early Scarlet Globe

Winter Varieties

The merits of Winter Radishes are little appreciated, probably because they are seldom grown, and few people have knowledge of their worth. These grow to large size and keep well for autumn and winter use. Sow the seed from the middle of July until the middle of September. Include some of these with your order.

¼ lb., 30c; lb., 90c, postpaid.

CHINA ROSE WINTER—Of bright deep rose color; flesh firm and excellent for keeping. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

LONG BLACK SPANISH—With black skin and white flesh; will keep until spring. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c, postpaid.

CALIFORNIA MAMMOTH WHITE—Roots white and when fully matured 9 to 12 inches long by 2 to 4 inches in diameter just below the shoulder, tapering regularly to the tip. Flesh firm, crisp, well flavored, and will keep well through the winter. Pkt., 5c; oz., 10c;

Plant Perfection Brand Spinach For Your Health's Sake

Squash

Squashes require a warm, fertile soil of sandy nature for best growth. Summer squashes grow mostly in compact bush form; hills for these should be about 4 feet apart; for long trailing fall and winter varieties hills should be 8 to 12 feet apart each way. If ground is not very rich two or three shovelfuls of well-rotted manure should be worked into each hill. Put 8 to 10 seeds in each hill about 1 inch deep. When danger of bugs is over, thin to three to four of the strongest plants.

CONNECTICUT STRAITNECK—A new early productive summer squash. Has small vine growth, about half the size of standard commercial varieties, which has valuable advantages as much thicker plantings can be made, resulting in really heavy crops. The fruit grows to a length of about 10 inches in 2 week after blossoming. The color is, briefly, lemon, and we like this color better than in some strains, as the fruits in the vegetable stands always have a distinct fresh appearance. This type produces fruit about two weeks ahead of any similar strain. Pkt., 5c; oz., 10c; ¼ lb., 30c, postpaid.

YELLOW SUMMER CROOKNECK—The plants are very productive and early bearing; skin of fruits very thickly warted and of orange-yellow color. Pkt., 10c; oz., 15c; ¼ lb., 40c.

HUBBARD—The most widely grown winter squash. Large and heavy, with bright orange flesh; fine grained, very dry, sweet and richly flavored; fine keeper; none better for squash pies. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.10, postpaid.

WHITE BUSH or PATTY PAN—The best early variety. The plants are of true bush form and produce fruits very early in the season. Largely grown in the South for shipment to Northern markets. Pkt., 5c; oz., 15c; ¼ lb., 40c, postpaid.

TABLE QUEEN OR ACORN—An excellent table squash. The fruits are about half the size of a coconut, and half of one, baked, serves one amply. The shell is smooth and dark green, deeply furrowed and keeping as well as the Hubbard. Flesh is rich orange-yellow, cooking as dry and sweet as a sweet potato. Heavy yield. 80 days. Pkt., 5c; oz., 10c; ¼ lb., 30c, postpaid.

Grow some of the small acorn and nut squashes this year. They can be made up into attractive table dishes.

A spring plant used for greens. Very hardy and most in demand in early spring and late fall. Leaves are large, rich and tender. Very easy culture and grows best in cool weather. Rapid growth is desirable that leaves may be strong and tender. Soil should be rich and given good cultivation. For fall use seed may be sown the middle of September. One ounce will sow 100 feet of drill.

SPINACH NOBEL NEW GIANT SMOOTH LEAVED—46 days. A quick growing variety with large, thick, almost smooth leaves with rounded ends. The plant is large and spreading. Heavy yielder, standing a long time before going to seed. A good canning variety. Pkt., 5c; oz., 10c; ¼ lb., 40c, postpaid.



Squash—Yellow Summer Crookneck

BLOOMSDALE—This is the most popular variety. The fleshy leaves are of true Savoy appearance; very hardy. Pkt., 5c; oz., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.65.

NEW ZEALAND—Best for hot weather. Yields continuously from late spring to late fall. During the summer months when ordinary Spinach bolts and goes to seed, this variety is at its best. It thrives on almost any soil and withstands drouth wonderfully well. The plant is bushy in form. As the tops are cut off, side shoots develop and in a few days another crop may be cut. Seeds should be soaked in warm water for 24 hours to hasten germination. Plant in March or April, 3 to 4 seeds in hills 2 feet apart each way. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c, postpaid.

Salsify or Vegetable Oyster

So called because of resemblance in flavor to the oyster when cooked. Tap root is long and resembles a parsnip and one-half the size of an ordinary parsnip. Requires a deep, rich soil and the whole season to mature in. Plant seed about 1 inch deep in drills 12 inches apart, later thin out young plants to 4 or 5 inches. One ounce will plant 70 feet of drill. Roots may be dug and stored in fall or left in ground over winter.

MAMMOTH SANDWICH ISLAND—Grows very large; well flavored and mild. Pkt., 5c; oz., 20c, postpaid.

Perfection Brand Selected Irish Potatoes

NORTHERN GROWN

On account of market fluctuations, we are unable to name exact prices. We will be pleased to have you write during the month of January or later and we will then quote prices for prompt or future shipment.

Clean seed is of vital importance in the production of potatoes. Planting scabby or diseased potatoes in your garden will not only produce an inferior crop but will infect the soil with disease spores, and render it unfit for potato production in the future. Cut the seed potatoes in four or more sections, each piece with an eye. Dust with sulphur, and plant one section in a place and about ten inches apart in the row. Level the land, open a furrow about five inches deep, plant, cover, leaving the surface level. As the potatoes grow, draw the soil to them and thus provide an irrigation furrow between the rows.

Our Certified Seed Potatoes were grown in the Red River Valley of Minnesota and North Dakota and are strictly fancy stock. Should not be compared to average stock as offered by grocers and commission houses.

TRIUMPH—Very early. Tubers are of medium size, round and uniform in shape, with but few small ones; eyes slightly depressed; color a beautiful light red. Its beauty, productiveness and fine quality make it one of the best extra early market varieties, especially for the South.

EARLY OHIO—Our stock of this variety is grown in the Red River Valley of the North.

IRISH COBBLER—A variety which in recent years has attained popularity. In many soils is as early or within a few days as early as Early Ohio, and the yield is superior. Added to this last the potato is chunky, white in color and of large medium size, making it the most attractive variety by far on the early market.

SAGE—One of the most perennial herbs, used principally for flavoring and seasoning. Cut the leaves and tender shoots just before the plant is coming into flower, and dry quickly in the shade. The plants are hardy and will survive the winter. Pkt., 10c; oz., 25c, postpaid.

Perfection Brand Delicious Tomatoes

Everyone likes a good Tomato and every garden should have at least a dozen hills of Tomatoes. They may take a little more work than some other vegetables, but the occasional hoeing needed is well repaid by the constant supply of delicious fresh fruit all summer long. When the first frost comes in the fall, there are usually a number of green tomatoes left on the vines. These make an excellent pickle which will be relished the whole winter. We pay special attention to raising Tomato plants for the home garden.

Our California grown tomato seed is unsurpassed, bred up for hardiness and yielding qualities and is disease resistant.

SPARKS' EARLIANA—Coming into the market before any other sort, it commands top prices. The fruits are solid, uniform in shape, and of a rich bright-red color. The Tomatoes are produced in clusters, and generally can all be gathered in about three weeks from the time the first fruits ripen. Pkt., 5c; oz., 35c; $\frac{1}{4}$ lb., \$1.25, postpaid.

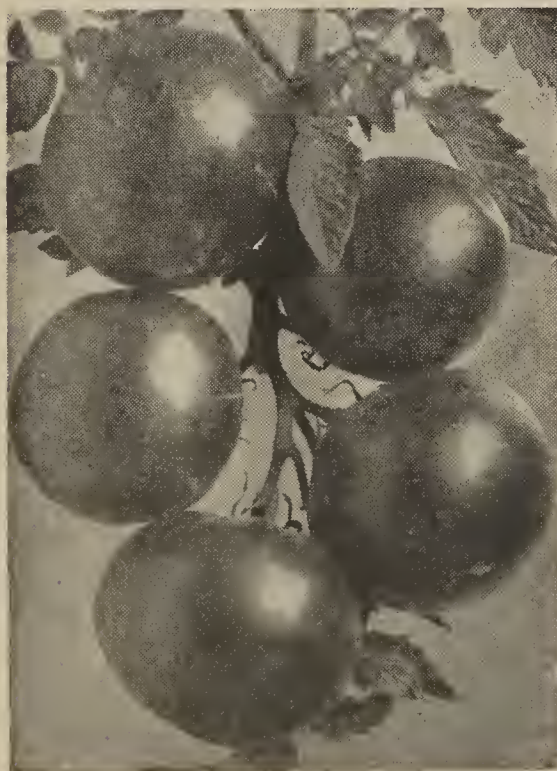
MARGLOBE—This new tomato is the result of the efforts of Dr. F. Pritchard of the United States Department of Agriculture who has succeeded in producing a perfectly globe-shaped tomato of the most beautiful red color. It bears an abundant crop of good sized fruit which ripens well up to the stem. It is a second early sort and has proven to be disease resistant in the section where tomato diseases are most prevalent. Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.00, postpaid.

GULFSTATE MARKET—Although this variety was developed primarily to meet the demands of tomato growers who ship to distant markets, its many excellent qualities make it also a very desirable sort for the home gardener or the grower for local markets. Fruits medium to large, round or globe shaped, show but little depression about stem and are smooth and free from cracks. Color, deep purplish pink, ripening well about the stem. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25, postpaid.

RUTGER'S—This tomato has thick outer and inner walls of solid meat, with very small seed cavity. It is scarlet-red color, globe shaped, resembling Marglobe. Ripens first in the center of the fruit, so that when red on the outside the tomatoes are ripe all through. Pkt., 10c; oz., 50c, postpaid.

The New Pearson Tomato

The Pearson is an early main-crop, scarlet fruited variety, having a compact self-topping vine. Like other determinate types the cluster of fruit set close together on the branch with only one or two leaves between clusters. The tomato is a slightly flattened globe-shape, very smooth, with a tough skin which shows practically no cracking. Yields are very heavy and the size is good when grown with proper soil fertility. Owing to its tough skin it is entirely possible that Pearson fruits for long distance shipping may be allowed to reach the pink stage of maturity before being picked, instead of harvested when mature-green—thus the consumer would be provided with a product of higher quality. Acre yields of thirty tons have been recorded in Indiana and California. Price per pkt., 10c; oz., 60c; $\frac{1}{4}$ lb., \$2.00, postpaid.



New Pearson Tomato

JOHN BAER—The seed offered here has been carefully bred and vine selected. Has small seed cavity, the fruit is medium size, smooth and firm and of beautiful glossy red color. The vines are sturdy and produce the fruit well above the ground. Early and prolific. Pkt., 10c; $\frac{1}{4}$ oz., 30c; oz., 50c, postpaid.

BREAK O'DAY—The variety is a cross between the Marglobe and Marvana, possessing the disease-resisting quality in both to a very marked degree. In size, color, shape and solidity the fruit is very much like Marglobe but matures from ten to twelve days earlier. It produces a very heavy plant and from a standpoint of yield is one of the most prolific varieties ever produced. The fruit is globe-shaped and of a beautiful deep scarlet color, and is unusually meaty, producing very few seeds. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00, postpaid.

NEW PRITCHARD or SCARLET TOPPER—This is a new tomato originated by the late Dr. Pritchard of the U. S. Department of Agriculture. It is early, fruits large, smooth, meaty, very red, globular. Vines medium, dense, erect, self-topping and very prolific.

Especially bred up for a green-wrapped tomato, it is also an excellent canner and it ripens well up to the stem end. It has a tendency to set a rather large number of fruits, therefore requires either a naturally fertile soil or one well fertilized in order to size up the fruit properly and produce maximum quantity of fruit per vine. Pkt., 10c; $\frac{1}{4}$ oz., 20c; oz., 60c, postpaid.

CHALK'S EARLY JEWEL—One of the best early tomatoes yet introduced. The vines are vigorous and very productive. Fruits deep scarlet red, nearly round or somewhat flattened, smooth, of large size and most excellent quality. They ripen very early, and the pickings continue through a long season. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 90c; lb., \$2.75, postpaid.

DWARF CHAMPION—The most popular dwarf variety in cultivation. The stocky, sturdy plants are of upright growth, requiring no support. The purplish red fruit begins to ripen early and are produced throughout the season. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25, postpaid.

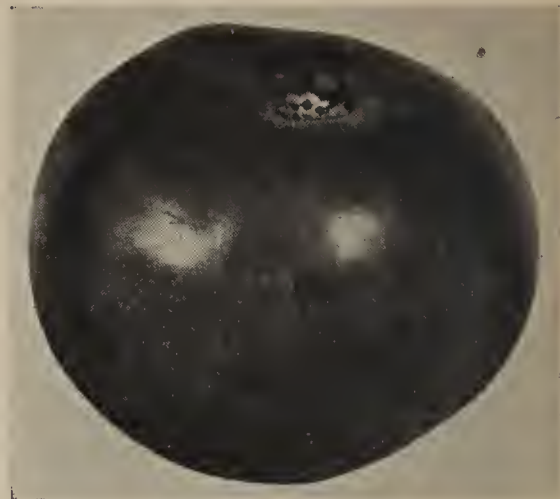
BEEFSTEAK—The fruit grows very large and very smooth. It is oval in shape rather than round like Stone. It is very solid and keeps well on the vines after ripening; has rather few seeds and ripens all over and through at one time. The color is clear deep red. Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

YELLOW PEAR—Used whole for salads and preserving. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c.

YELLOW PONDEROSA—A main crop, yellow-fruited variety. Fruit is large, rough and flattened in shape; set in clusters of 3 to 5. Vine makes a medium, rather open growth and shows good wilt resistance. Pkt., 10c; oz., 60c.

RED CHERRY—Used whole for salads and preserving. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c.

GROUND CHERRY or HUSK—Used whole for salads and preserving. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c.



Tomato—New Stone

OXHEART—Popular because of its attractively different shape, large size and excellent table qualities. Not a heavy yielder but large size, often weighing 3 lbs. or more. Skin pink, almost seedless, firm sweet flesh frequently two inches thick, without a seed cavity. Slices well. Pkt., 15c; $\frac{1}{4}$ oz., 30c; oz., \$1.00, postpaid.

PONDEROSA—Largest fruited tomato in cultivation, single fruits often weighing from 2 to 4 pounds and measuring 18 inches in circumference. It is solid and meaty to the heart and has small seed cavities. For this reason selected seed of this variety will always be scarce. Fine for slicing and of excellent flavor. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25.

NEW STONE—Immensely popular with canners, Southern shippers, and market gardeners. It is a remarkable yielder, very firm and of a handsome, bright red color. It is of excellent shape with very smooth skin, never cracking, and free from green core. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.50, postpaid.

Cuprocide 54-Y for Tomato Disease Control

After four years of extensive research, investigators at various state experiment stations have found that Cuprocide 54-Y (based on yellow cuprous oxide) is effective and safe on tomatoes in the seedbed and field. This material, containing 47.2% copper as metallic, is a highly efficient fungicide which requires no lime; suspends well in the tank, and sticks tenaciously to foliage.

Cuprocide 54-Y is reasonable in price and is convenient to handle and use. No mixing platforms or stock solutions are necessary, as the material is merely washed through the screen into the tank. It does not corrode metals, and may therefore be handled in ordinary containers and used in galvanized or other types of spray tanks. Cuprocide 54-Y may be used with arsenicals, nicotine sulphate, derris, cube, or other materials ordinarily used in sprays.

Time and Frequency of Spraying

Dr. J. G. Horsfall, Chief in Research, Geneva (New York) Agricultural Experiment Station, reported as follows at the Maryland Canning Crops Conference at College Park, February 23 and 24, 1939: Yellow copper oxide in 1938 tomato tests at Geneva, N. Y., and in Georgia, was effective without producing injury. He stated: "It is desirable not to spray oftener than necessary. Last year (1938) we found we could hold off until August 1 and still obtain commercial disease control. Perhaps the best criterion would be to apply three or four sprays at ten-day intervals after the plants begin to grow together in the middles. In spraying, it is important to drive the spray to the center of the vines, ignoring the tips, if necessary."

For four applications (3 lbs. per 100 gals. of spray, and applying 100 gals. per acre) you will require 12 lbs. of Cuprocide 54-Y per acre for the season. At this rate, one case of 48 lbs. (16 3-lb. bags) will be sufficient to spray four acres for the season. 3-lb. pkg., \$1.10; case lots, 16 3-lb. pkgs., 32c per lb.

Perfection Brand Turnips

The turnip is not injured by frost and makes its growth in cool, moist weather. For spring sowing plant as early as the ground can be worked and for fall sowing plant from August to October 1st in this latitude. One ounce will sow 200 feet of drill. Turnips prefer a light sandy loam. Sow in rows 12 to 18 inches apart and half-inch deep. Thin out so the plants stand 4 inches apart.

EXTRA EARLY PURPLE TOP MILAN—Flat bulbs, develop very early in the season. They are moderate sized, quite smooth and of excellent table qualities. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid.

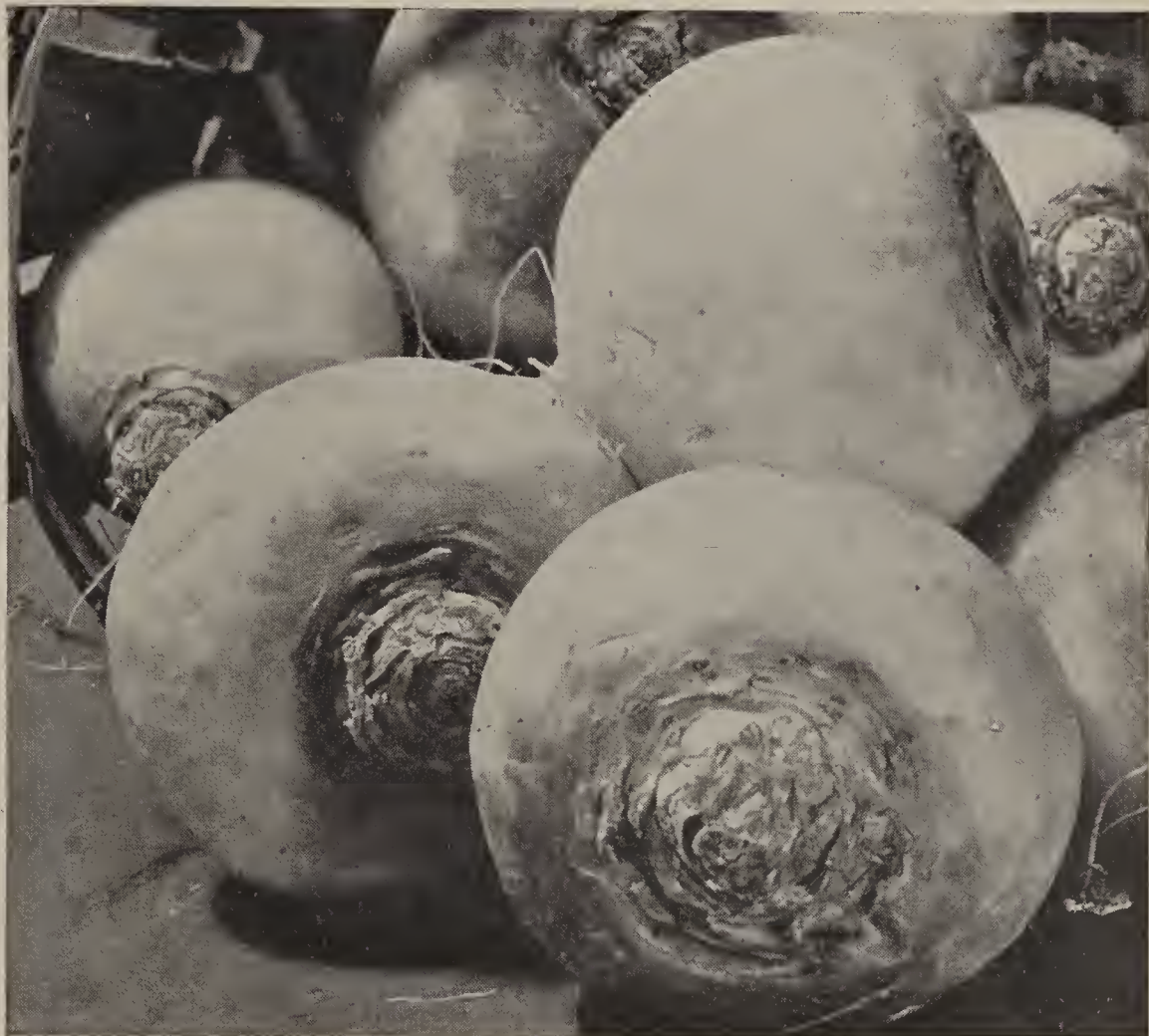
EARLY WHITE MILAN—The earliest of all. On account of its beautiful shape and extreme earliness this takes the front place among turnips. It is so smooth and neat in appearance that it gives the impression that it has been polished by hand. The foliage is scant and short. Both skin and flesh are snowy white. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid.

WHITE EGG—Of handsome oval form with perfectly thin white skin. It grows very quickly and the flesh is very firm, sweet and mild. Pkt., 5c; oz., 10c; ¼ lb., 20c, postpaid.

COWHORN—A long white turnip, 12 to 15 inches in length, 2½ inches in diameter. Of rapid growth, producing large, heavy roots in 65 to 75 days. Very hardy. One of the best and sweetest for home use or for stock feeding. Pkt., 5c; oz., 10c; lb., 45c; 5 lbs., \$2.00, postpaid.

PURPLE TOP WHITE GLOBE—Form large globe-shaped roots very rapidly. The upper half is a purplish color while the lower half is a pure white; the flesh is pure white, crisp and of excellent table qualities. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid. By freight or express, lb., 45c; 5 lbs., \$1.75.

OUR SELECTED EARLY RED TOP WHITE GLOBE—Grown for us on contract from selected, transplanted roots. A perfect globe-shaped, with bright red or purple top and snow-white bottom. Due to the care in growing the seed it does not taper like other types of the same variety. Used extensively by our market gardeners. Oz., 10c; ¼ lb., 20c; lb., 65c, postpaid.



Turnips—Purple Top White Globe

SEVEN TOP—Does not produce a good root, but is extensively grown in the South for the leaves, which are used for greens; very hardy and will grow all winter. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

IMPROVED PURPLE TOP RUTABAGA—Requires a longer season in which to grow than turnips, but flesh is of superior quality and keeps better. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c, postpaid.

EARLY RED or PURPLE TOP STRAP LEAF—The standard early variety; quick-growing; flesh fine-grained and sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c, postpaid. By freight or express, lb., 45c; 5 lbs., \$2.00.

LARGE YELLOW or AMBER GLOBE—Grows to a large size and is chiefly used for stock feeding; flesh yellow, firm and of good keeping qualities. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c, postpaid.

*The best recipe for good health;
grow your own vegetables and eat
them.*

Vegetable Plants and Roots

ASPARAGUS ROOTS (Washington Rust Proof)—Two-year-old roots. Dozen, 35c, postpaid. By express, 100, \$1.50.

EGGPLANT (New York Improved Large Purple)—Ready in May. Dozen, 35c, postpaid. By express, 100, \$2.75.

FROST PROOF CABBAGE PLANTS—Early Jersey Wakefield and Early Flat Dutch. 35c per 100, postpaid. Ask for quantity prices.

HORSERADISH SETS—Dozen, 35c; 100, \$2.00, postpaid.

SWEET POTATO SLIPS—Write for prices.

PEPPER PLANTS (Large Sweet Bell)—Ready in April. Dozen, 40c, postpaid.

RHUBARB ROOTS—Strong roots. Each, 30c; dozen, \$2.50. Small roots, each, 10c; dozen, 90c, not postpaid.

TOMATO PLANTS—Transplanted—Ready in April. Dozen, 35c, postpaid. By express, 100, \$1.75.

Don't let bugs or lice eat up either the flower or vegetable plants you have started. Spray with Black Leaf 40 for plant lice, and with Bordeaux Mixture for rust, blight or fungus. We have all kinds of sprayers and remedies.

Tobacco

Culture—The seed should be sown as early as possible after all danger of frosts is over. A good plan is to burn a quantity of rubbish and brush in the spring on the ground where the crop is to be grown, then dig and thoroughly pulverize the earth and mix with the ashes, after which the seed may be sown and covered very lightly. When the plants are about 6 inches high transplant into rows 4 or 5 feet apart each way; cultivate thoroughly with plow and hoe.

CONNECTICUT SEED LEAF—An old, well-known variety. Pkt., 10c; oz., 50c.

HAVANA—Grown from imported seed from Vuelta de Abajo. Pkt., 10c; oz., 50c.

WHITE BURLEY—Well-known sort. Our seed is grown on the famous limestone fields of Tennessee. Pkt., 10c; oz., 50c.

Number of Plants to Acre at Given Distances

Dis. apart	No. Plants	Dis. apart	No. Plants	Dis. apart	No. Plants	Dis. apart	No. Plants	Dis. apart	No. Plants	Dis. apart	No. Plants
12 x 1 in.	522,720	18 x 18 in.	19,360	30 x 6 in.	34,848	36 x 12 in.	14,520	48 x 12 in.	10,890	60 x 48 in.	2,178
12 x 3 in.	174,240	20 x 1 in.	313,635	30 x 12 in.	17,424	36 x 18 in.	9,680	48 x 18 in.	7,790	60 x 60 in.	1,743
12 x 12 in.	43,560	20 x 20 in.	15,681	30 x 16 in.	13,068	36 x 24 in.	7,260	48 x 24 in.	5,445	8 x 1 ft.	5,445
16 x 1 in.	392,040	24 x 1 in.	261,360	30 x 20 in.	10,454	36 x 36 in.	4,840	48 x 30 in.	4,356	8 x 3 ft.	1,815
18 x 1 in.	348,480	24 x 18 in.	15,520	30 x 24 in.	8,712	42 x 12 in.	12,446	48 x 36 in.	3,630	8 x 8 ft.	680
18 x 3 in.	116,160	24 x 24 in.	10,890	30 x 30 in.	6,970	42 x 24 in.	6,223	48 x 48 in.	2,723		
18 x 12 in.	29,040	30 x 1 in.	209,088	36 x 3 in.	58,080	42 x 36 in.	4,148	60 x 36 in.	2,901		

Why Envy Your Neighbor of Her Beautiful Flowers

You, too, can have a beautiful flower garden. Perfection Brand Seeds are of such a high germinating quality and are so reasonably priced that with a few dollars you can have a show place. A word about planting flower seeds—sow the seeds either broadcast or in rows and cover lightly—a good general rule is to cover four to five times the size of the seeds—and press soil firmly. Small seeds cannot come up if covered too deep. Very fine seeds should be sown on the surface and pressed into the soil.

AGERATUM—Summer blooming plants throughout summer and fall. Desirable for borders, hedging, and rockeries. Does well in sun or half shade in any soil.

Blue Perfection—Medium blue, large flowers. Compact plants. 9 inches. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

ALYSSUM (Compactum) LITTLE GEM—A low spreading light green plant with small white flowers of a peculiar delicate fragrance. Most effective in masses of plants. Pkt., 5c; $\frac{1}{4}$ oz., 20c.

Lutescens—Creamy yellow. Grows 4 to 6 inches. Pkt., 5c; $\frac{1}{4}$ oz., 20c.

ANTHEMIS KELWAYI—Perennial. The bush plants 2 to 3 feet tall, thriving in any soil and requiring full sun, grow compactly and are covered with rich yellow flowers good for cutting. They flower profusely from June to September, or even until frost. Pkt., 10c; $\frac{1}{4}$ oz., 20c, postpaid.

ASTER (Composite)—The Aster is considered the queen of all flowers. For beauty and variety of form and color, it is unrivaled, and of all the flowers is best adapted to win the admiration of all lovers of floral beauty. Set a foot apart. Height, $1\frac{1}{2}$ feet. Annual.

Wilt-Resistant Type American Beauty—Mixed colors. Pkt., 20c.



Candytuft

Below—Calendula—Mixed



BABY'S BREATH (Gypsophila)—Annual, 10 to 15 inches. Blooms in May and June. Small flowers on branched stems so thick as to give the plants a white lacelike effect. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

BALSAM (Lady's Slipper, Touch-me-not)—An old favorite garden flower producing its gorgeous masses of beautiful brilliant colored double flowers in the greatest profusion. Half-hardy annual. 2 feet high.

Mixed Double—Pkt., 10c; $\frac{1}{4}$ oz., 20c.

Double Bush Flowered Torch (Annual Northern Gardenia)—Unlike the taller Balsams, the flowers in the Bush Flowered type are carried at tips of the stems, making a show of color rather than foliage. The plants are 8 to 10 inches in height, very compact and literally covered with double flowers. This variety is a penetrating vermilion red in color. Can be used as an edging plant, in your rock garden, or in your window boxes. Pkt., 20c.

BRACHYCOME IBERIDIFOLIA (Swan River Daisy or Annual Cineraria)—Fine for edging, or rock gardens. Free flowering. Small, Cineraria-like blooms nearly all summer.

Blue—Pkt., 10c.

Finest Mixed—Blue rose and white. Pkt., 10c.

CALCIA (Tassel Flower)—Also known as Flora's Paint Brush. This is a very showy, erect growing, hardy annual plant, one to two feet high, very slender wiry stems and narrow bright green foliage. The flower heads are loosely clustered about half inch in diameter, making a feathery, tassel-like bloom.

MIXED—Bright scarlet and bright golden orange. Pkt., 10c.

CHEIRANTHUS (Siberian Wallflower)—Biennial. Sow seed every year. Golden Bedder. Each plant produces 10 to 15 spikes, ranging in height from 12 to 15 inches, covered with beautiful, large, golden yellow flowers. Sweet scented. Pkt., 10c.

CALENDULA (Orange Shaggy)—One of the most interesting and certainly the most distinct of the new types is the lacinated petaled type, Orange Shaggy. Deep orange in color, it is a striking contrast to the formal Calendulas in general use. Pkt., 15c.

CALENDULA (Pot Marigold)—Pkt., 10c; oz., 50c. Mixed colors—pkt., 10c; oz., 40c.

CANDYTUFT (Iberis Umbellata)—One of the most hardy annuals, useful for cutting and is most effective when grown in a mass. Sow early $\frac{1}{4}$ inch deep in fine, rich soil and transplant or thin out to 9 inches apart. Height, 1 foot.

PERFECTION Brand Mixed—Pkt., 5c; $\frac{1}{4}$ oz., 15c.

Below—Columbine—Long Spurred



CARNATION—Marguerite—These are comparatively a new class of carnations. They are highly prized for massing in summer beds and their perfect form, beautiful shades of color and lavish profusion of bloom continue till frost. Semi-dwarf, 10 to 15 inches high. Annual. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

CENTAUREAS MOSCHATA (Sweet Sultan)—Mixed colors. Very desirable for cutting and garden decoration. They bloom freely for many weeks during the summer. The large, long, stemmed, sweet scented flowers are exquisitely fringed and most graceful in appearance. Pkt., 10c; $\frac{1}{4}$ oz., 25c, postpaid.

POPULAR DOUBLE CORNFLOWERS (Centaurea Cyanus)—An old favorite, noted for its vigorous growth, large size flowers, and extreme doubleness of its blooms. The plants grow 2 to 3 feet tall. Fine for cut flowers.

Centaurea—Jubilee Gem.

Black Boy—Blackish haroon.

Blue Boy.

Pinkie.

Red Boy.

Double Mixed.

All, pkt., 10c; $\frac{1}{4}$ oz., 25c.

CHRYSANTHEMUM—Annual (Painted Daisies)—Flower profusely during summer and fall. They are showy in the garden and fine for cutting. Prefer heavy soil. Grows 18 to 24 inches.

Carinatum Atrococcineum—Dark coppery crimson, yellow zone. Pkt., 5c; $\frac{1}{4}$ oz., 20c.

Tricolor—Finest Mixed. Pkt., 5c; $\frac{1}{4}$ oz., 20c.

Coronarum Coronet—Golden Glory, deep canary yellow. Pkt., 5c; $\frac{1}{4}$ oz., 20c.

COLUMBINE (Aquilegia)—One of the most popular perennials, easy of cultivation and flowering from early summer until frost. Very desirable for borders and groups among shrubbery, 1 to 3 feet high.

Long Spurred Mixed—Pkt., 10c.

Coerulca Rocky Mountain—Pkt., 20c.

Long Spurred Hybrids—Blue shades. Pkt., 10c.

COREOPSIS—Perennial. Grows 2 to 3 feet. Easy to grow, blooms profusely from May until autumn. Fine for cutting.

Grandiflora—Double Sunburst, large golden yellow, full double flowers. Pkt., 15c.

COSMOS—Sensation—The Sensation type of Cosmos is today the favorite for cut flower use. The flowers are of immense size, 4 to 5 inches in diameter, with broad heavy fluted petals which slightly overlap, giving a very full single flower, making it ideal for cut flower use. The flowers are carried on long stems and are freely produced on plants which reach a height of 3 to 4 feet. The flowers are produced within 8 to 10 weeks from the time seed is sown.

PINKIE—Delightful rose shade. Pkt., 15c.

PURITY—Glistening white. Pkt., 15c.

COSMOS—Early Mammoth Single Mixed. Pkt., 10c.

COSMOS—Late Mammoth Single Mixed. Pkt., 10c.

Below—Cornflower (Centaurea Cyanus)



Plant Marigold Collarette Crown of Gold

COSMOS—Early Klondike Orange Flare—Brig vivid orange, very free flowering, 2 to 3 feet tall, with sparse growth of light green foliage. The most outstanding characteristic is its early blooming habit. The blooming season is long, and the long wiry stems make Orange Flare an excellent flower for cutting. Pkt., 10c.

CYNOGLOSSUM (Chinese Forget-me-not)—Annual. Large sprays of rich blue forget-me-not-like flowers from June till September. Thrives in a dry, sunny location. Height, 20 inches. Pkt., 10c; oz., 35c.

CELOSIA CRISTATA (Cockscomb)—Showy flower-heads or combs of plush-like finish. They are very ornamental and are easily dried for winter decorations.

Tall Crimson—Pkt., 10c; ¼ oz., 25c.

Dwarf Empress—Dark foliage, dark red flowers. Pkt., 10c; ¼ oz., 40c.

DAHLIA—The dahlia is one of the most popular occupants of our gardens. Easily raised from seed, which will produce to flower the first season. Half-hardy perennial, 3 to 5 feet. Double Mixed—Pkt., 10c; ¼ oz., 50c.

DIANTHUS (Heddewigi)—(Japanese Pinks)—Annual. Plants dwarf compact, 10 to 12 inches, free flowering. Perfection Brand Double Mixed, pkt., 10c.

DIANTHUS (Heddewigi Laciniatus)—Annual. Plants dwarf compact, free flowering lacinated petals. Perfection Brand Double Mixed, pkt., 10c.

DIANTHUS (Laciniatus Splendens)—The most striking Dianthus ever offered. Laciniatus Splendens comprises extra large single flowers of brilliant crimson, boldly contrasted with a glistening white eye, borne profusely on neat dwarf plants. Pkt., 20c.

DIMORPHOTHECA (African Daisy)—Showy annuals, about 1 foot tall, with fine daisy-like blooms during summer and fall. Good for rock gardens, edgings and cutting. Need sunny exposure.

AURANTIACA MIXED—Pkt., 10c.

DUSTY MILLER (Candidissima)—For bedding, hanging baskets and pots and for edging of beds where white foliage is desired. Silvery white, finely cut leaves. 15 inches. Pkt., 10c.

FOUR O'CLOCKS or MARVEL OF PERU (Mirabilis)—This handsome, well-known free flowering garden favorite does well in any soil and under almost all conditions. Produces large flowers of many brilliant colors. The flowers are at the height of perfection during the afternoon. Height, 2 feet. Mixed—Pkt., 10c; ¼ oz., 20c.

Tall Red—Pkt., 5c; ¼ oz., 20c.

FOXGLOVE (Digitalis)—A very beautiful and interesting old-fashioned plant whose culture is very simple. The bell-shaped flowers borne on long spikes make an exceedingly handsome and stately border. Keep plants 2 feet apart. Height, 3 to 5 feet. Hardy biennial. Perfection Brand Mixed—Pkt., 10c; ¼ oz., 75c.

GAILLARDIA (Blanket Flower)—Annual. Blooms July to October. The annual varieties are very showy and are well adapted for garden decoration and cutting. Grandiflora. Double Mixed. Two ft.; large flowering. Pkt., 10c; ¼ oz., 25c.

GERANIUM (Pelargonium)—These universally admired plants are easily grown from seed and bloom the first season. Half-hardy perennial. 1 to 2 feet. Perfection Brand Mixed—Pkt., 10c; ¼ oz., 75c.

GOMPHRENA (Globe Amaranth)—A showy annual everlasting or strawflower, resembling a large clover blossom. Mixed colors, pkt., 10c.

GYPSOPHILIA (Baby's Breath)—Easy to grow in any soil. Open bell-shaped blooms used so much for mixing with other flowers in bouquets. Blooms quickly.

Elegans Grandiflora (London Market)—White.

Elegans Grandiflora (Carminea)—Deep rose. Pkt., 5c; ¼ oz., 15c.

HELIANTHUS (Sunflower)—Extra Dwarf Chrysanthemum. Double golden yellow flowers. Grows 3 feet in height. Will not thrive in shade. Pkt., 10c.

HELICHRYSUM (Monstrosum Strawflower)—The finest of all everlastings for the home garden. They are very handsome when growing in the open and make unusually fine winter bouquets if cut when partially opened and dried slowly in a cool place, heads downward to keep the long stems straight. They come in a wide range of brilliant and soft colors. Pkt., 10c.

HOLLYHOCK (Althea Rosea)—The hollyhock is an old garden favorite. The tall, stately spikes bear immense quantities of blooms of the most brilliant colors and as double as a rose. Plant 3 feet apart and water freely. Height, 5 to 6 feet. Hardy perennial.

Perfection Brand Double Mixed—Pkt., 10c; ¼ oz., 25c.

Chaters Double—Rose, pink, crimson, maroon and white. Pkt., 10c; ¼ oz., 30c.

KOCHIA (Summer Cypress)—Sometimes called burning bush. This annual plant is of surprising rapid growth, regular pyramids about 2 feet high. Leaves slender, of light pea green until fall, changing to blood red and carmine. Pkt., 5c; ¼ oz., 10c; oz., 30c.

LINARIA Toad Flax—The Linarias, commonly known as miniature snapdragons, are very charming, free flowering border plants in bright and pastel shades. 18 inch.

Perfection Brand—Pkt., 10c; ¼ oz., 20c.

LINUM (Flowering Flax)—Perenne-perennial. Blue. 20 inches. Pkt., 10c; ¼ oz., 15c.

LUPINS—Long graceful spikes of pea-shaped flowers from July until August. Plant in lime free, moist soils.

Hartwegii—Dark blue. Pkt., 5c; ¼ oz., 15c.

Hartwegii—Finest mixed. Pkt., 5c; ¼ oz., 15c.

Russel's Prize Mixed. Pkt., 20c.

Marigolds

MARIGOLD, GUINEA GOLD (2 ft.)—Carnation-like petals and unusually brilliant golden color makes this flower outstanding among Marigolds. It lacks much of the pungent odor of other Marigolds. The plants bloom very freely, and practically all flowers are double. Pkt., 10c; ¼ oz., 35c.

MARIGOLD, HARMONY, Dwarf French Double—Compact plants, free flowering, golden yellow bordered maroon red, scabious shaped. Pkt., 10c.

MARIGOLD, COLLARETTE CROWN OF GOLD—New, orange, 2½-inch flowers, crested center, broad guard petals, odorless foliage. Pkt., 10c.

MARIGOLD, ROYAL SCOTT—All Double, Dwarf French. Uniformly dwarf, compact plants, fully double, rich mahogany red and gold striped flowers. Pkt., 20c, postpaid.

MARIGOLD (Gigantea Sunset Giants)—The largest flowered of the Marigold group. Averaging 5 inches and some attaining a size of 7½ inches across, but they are produced in such profusion that a plant of Sunset Giants is one of the showiest places in the garden. Instead of the usual marigold odor these have a definitely sweet fragrance. This strain comes from 60% to 65% double. Pkt., 25c.

MIGNONETTE—The mignonette is a universal favorite and no other flower is so generally known for fragrance. The dense semi-globular heads of flowers on stalks about 6 inches high, making the whole plant reach to 1 to 1½ feet high. Hardy annual. Mixed—Pkt., 10c; ¼ oz., 15c.

LARKSPUR (Giant Imperial) (Illustrated inside front cover)—Tall, upright, compact, basal branching in habit, the Giant Imperials have superseded all other types of Larkspurs. The delphinium like spikes of double flowers, carried on stems 4 to 5 inches long, are compactly placed on upright growing plants, requiring about one-half the space needed for the old stock flowered type.

Bell Blue—Azure Blue.

Blue Spire—Very deep violet blue.

Carmine King—Deep carmine rose.

Dazzler—Rich scarlet.

Miss California—Deep Rose on Salmon. Finest Mixed.

Pkt., 10c; ¼ oz., 30c, postpaid.

Larkspur Tall Double Stock Flowered Mixed—Pkt., 10c; ¼ oz., 25c, postpaid.

Below—Marigold—Gigantea



Below—Hollyhock—Double Mixed



Below—Gillardia



Your list of annuals should be made up as soon as possible now—try a few new ones this year.

Some of the hardy annuals can be seeded on frosted ground and will start to grow earlier.

Nasturtiums . . . In a Riot of Color

Nasturtiums

DOUBLE-GLEAM INDIAN CHIEF (New)—Has dark foliage with vivid scarlet flowers. The blooms are sweet scented and freely produced. Pkt., 10c; oz., 30c.

SALMON GLEAM—Delicate golden salmon. Pkt., 10c; oz., 20c, postpaid.

NASTURTIIUMS—GOLDEN GLEAM—A recent introduction. The large, golden yellow flowers average two and one-half to three inches across. They are borne on erect, stiff stems six inches in length. When well grown the remarkable formation given the flowers a fully double appearance. Very sweet scented. Pkt., 10c; oz., 20c.

ORANGE GLEAM—An improvement over Golden Gleam in doubleness and also for number of flowers in bloom on one plant. Pkt., 10c; oz., 20c.

SCARLET GLEAM—Fully double, of the same type as Golden Gleam. Pkt., 10c; oz., 20c.

GLORIOUS GLEAM HYBRIDS MIXED—Wide assortment of colors, sweet scented. Pkt., 10c; oz., 20c.

MAHOGANY—Double sweet scented, dark mahogany red. Pkt., 10c.

SUPREME—Double sweet scented, salmon cerise. Pkt., 10c.

DWARF GEM—Semi-double, sweet scented. Grows about 1 foot high. The dwarf, rounded plants are most attractive for beds, borders and rock gardens. Flowers are produced freely on long stems. Suitable for cutting.

Orange Gem—Clear orange. Pkt., 5c; ¼ oz., 15c.

Salmon Gem—Soft golden salmon. Pkt., 5c; ¼ oz., 15c.

Scarlet Gem—Fiery scarlet. Pkt., 5c; ¼ oz., 15c.

SINGLE NASTURTIIUMS—Dark leaved. **Perfection Dwarf Mixed**. Pkt., 5c; oz., 15c; ¼ lb., 30c. **Perfection Tall Mixed**. Pkt., 5c; oz., 15c; ¼ lb., 30c.

NICOTIANA AFFINIS (Sweet Scented Flowering Tobacco)—A free flowering annual, blossoms resemble the petunia, opening in the evening and emit a very powerful perfume.

Crimson Bedder—Compact, deep crimson, 16 inches. Pkt., 10c.

Hybrids—Mixed. Pkt., 5c; ¼ oz., 25c.

NIGELLA (Love-in-a-mist)—One of the prettiest old-fashioned annuals with attractive double flowers, nestled among the fine, feathery foliage. Blooms over a long period. 1½ feet tall.

MISS JEKYLL—Cornflower blue. Pkt., 5c; ¼ oz., 15c.

Phlox Annual

The Phloxes are the showiest and most easily raised of all annuals. All the tints of the rainbow are represented with all possible variations of stripes, veins and eyes of contrasting shades.

Seed should be sown in the ground as soon as danger of frost is over and in a few weeks the beds are a blaze of glory. If seed pods are cut off the plants will continue to flower until frost.

Salmon Glory (New)—The color is a pure salmon pink with a distinct creamy-white eye. The individual florets are gigantic for Phlox, measuring 1¼ to 1½ inches in diameter. Pkt., 20c.

Drummond Grandiflora Mixed. Pkt., 10c; ¼ oz., 25c.

Gigantea Art Shades—Very large flowers, lovely pastel shades. Pkt., 10c; ¼ oz., 35c.

Star Mixed—Deeply fringed and pointed petals. Pkt., 10c.

The best remedy for ailing plants is an application of complete plant food. It can also be used in the rows of the vegetable garden to speed up growth.

Petunias . . . In Colors Soft and Vivid

Few flowers excel Petunias in brilliant and gorgeous display. The commence flowering very early, and continue throughout the whole season. Easily cultivated in almost any soil in a sunny location.

PETUNIA HYBRIDA—

Used for mass planting, beds, borders and window boxes. The plants are extremely free blooming. Grow 1¼ feet high.

General Dodd—Blood red. Pkt., 10c; ¼ oz., 25c.

Howard's Star—Rosy-crimson with a clearly defined five-pointed star of blush white. Pkt., 10c; ¼ oz., 25c.

Inimitable—Red and rose, spotted, striped and starred white. Pkt., 10c; ¼ oz., 25c.

Rose King Improved—Deep clear rose pink.

Flower large and beautiful. Pkt., 15c; ¼ oz., 50c.

Violecea—Deep violet. Pkt., 10c; ¼ oz., 35c.

Flaming Velvet—Deep, velvety blood red. Pkt., 20c.

Perfection Brand Mixed—All Colors. Pkt., 10c; ¼ oz., 20c.

HYBRIDA NANA ERECTA—

This group is a dwarf, compact, floriferous and continuous bloomer, undoubtedly the most satisfactory bedding type in cultivation.

Alderman—Deep violet blue. Pkt., 15c.

Blue Bedder—Mid blue. Pkt., 15c.

Silver Blue (Heavenly Blue)—Light blue. Pkt., 20c.

Snow Queen—White, large flowers. Pkt., 20c.

Rose of Heaven—Brilliant rose. Pkt., 15c; ¼ oz., 30c.

Rosy Morn—Rose pink, white throat. Pkt., 15c; ¼ oz., 30c.

Violacea—Deep velvety purple. Pkt., 20c; ¼ oz., 45c.

Perfection Brand Mixed—Pkt., 10c; ¼ oz., 30c.

PETUNIA PENDULA—

Balcony or trailing type. Grows 16 to 24 inches. Showy plants with long branches covered with blooms, 2½ inches across.

Black Prince—Deep velvety red-darkets of all red varieties. Pkt., 25c.

Deep Blue—Pkt., 25c.

Red—Crimson. Pkt., 25c.

Rose—Clear rose, golden throat. Pkt., 25c.

Perfection Brand Mixed—Pkt., 20c.

NANA COMPACTA—

Grows erect and bushy, 10 to 12 inches high.

FINEST MIXED—Pkt., 25c.

PETUNIA MINIATURE NANA COMPACT—Neat compact plants about 6 inches high and 8 inches in diameter, fully covered with a mass of 2-inch flowers.

Martha Washington—Blush pink deepening to dark violet throat, ruffled flowers, dwarf, compact, free flowering. Pkt., 35c.

PANSIES—The pansy is a flower that is well known and highly prized in every garden. **Giant Trimardeau Mixed**—Pkt., 10c; ¼ oz., 40c; oz., \$1.25.

SWISS GIANT MIXED—A large flowering type in a good range of colors. Pkt., 20c.

Annual Poppies

Annual poppies should be sown in the spring soon as possible where they are to remain, as they do not stand transplanting. Poppies are charming subjects in the garden because of their brilliantly colored flowers and the freedom in which they are produced.

CALIFORNIA POPPY—Spreading varieties.

AURANTICA—Orange. **CARMINE KING**—Deep carmine. **BRILLIANT MIXED**—Pkt., 10c; ¼ oz., 25c.

DOUBLE CARNATION FLOWERED—Fringed huge ball shaped blooms with attractive fringed petals in a wonderful range of colors. **Cherry Red**; **Mikado**, **White edged Scarlet**; **Salmon Pink**; **Vermilion Red**.

FINEST MIXED—All per pkt., 10c; ¼ oz., 15c.

DOUBLE SHIRLEY MIXED—Pkt., 5c; ¼ oz., 15c.

SINGLE SHIRLEY POPPY—Large, single flowers with papery, silk-like petals. Very attractive. Pkt., 5c; ¼ oz., 15c.

AMERICAN LEGION—Brilliant scarlet, white maltese cross.

FINEST MIXED—All per pkt., 5c; ¼ oz., 20c.

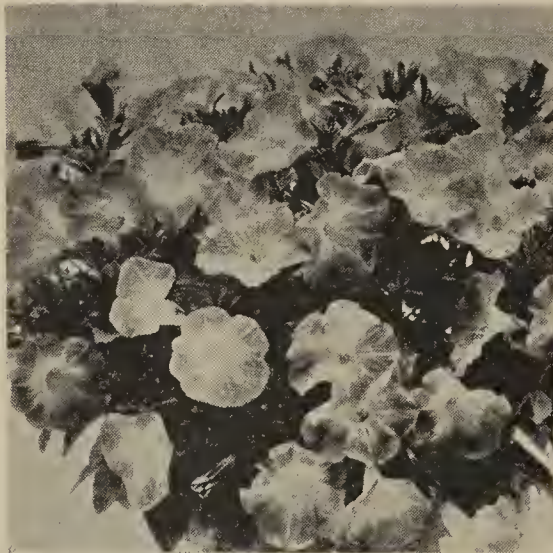
FLANDERS POPPY—A true dwarf orange scarlet, black cross. Pkt., 10c; ¼ oz., 30c.

HYBRIDA SPLENDENS ANNUAL—Tall, red flowers, somewhat similar to Oriental. Pkt., 10c.

Nasturtiums—Golden Gleam



Petunia—Rosy Morn



Below—Phlox—Gigantea



Sweet Peas Complete the Garden Scheme

PORTULACA—There is scarcely any flower in cultivation that makes such a dazzling display as a bed of many-hued, highly colored Portulaca. In bloom all summer until frost. Beds should have full exposure to sun and plants will stand any amount of dry weather.

Double Mixed—Pkt., 10c; ¼ oz., 50c.

Single Mixed—Pkt., 10c; ¼ oz., 20c; oz., 65c.

RICINUS (Castor Bean)—This magnificent foliage plant is picturesquely showy and imposing, lending to the garden, a truly sub-tropical effect. When grown single, it forms a perfect pyramid of gigantic leaves, which with the brightly colored seed pods make a perfect oriental picture. Plant 2 inches deep when all danger of frost is over. Set out or transplant 3 feet apart.

Perfection Brand Giant—Pkt., 10c; oz., 20c.

SALVIA (Scarlet Sage)—One of the handsomest flowering plants we have for garden decoration, blooming in spikes, from mid-summer until killed by frost. Splendens—Pkt., 10c.

Farinacea Blue Bedder—3-foot, rich, deep blue flowers. Free flowering. Pkt., 15c.

SCABIOSA (Mourning Bride)—The handsome double flowers are borne on long stems, thus adding to their value as cut flowers, while the colors range from pure white through shades of pink and red to blue and black-maroon. Grows 24 inches high.

IMPERIAL GIANTS BLUE MOON—Extremely large, well formed flowers, which are fully double. Plants very upright, growing 42 to 48 inches tall. Pkt., 25c.

Giant Flowered Hybrids Mixed, large flowers, unusual colors, ball shaped. Pkt., 10c; ¼ oz., 20c.

Snapdragon—Antirrhinum

SNAPDRAGON (Antirrhinum Rustproof Majus Grandiflorum)—New strains of rustproof are highly immune to rust disease.

University of California DeLuxe Mixed—Rustproof. An evenly balanced blend of popular colors. Pkt., 15c, postpaid.

BUTTERCUP—Canary yellow.

FIERY RED—Very brilliant.

ORANGE SHADES—Deep and light orange.

PINKIE—Clear rose.

All above, per pkt., 20c.

All legumes, including lupins and sweet peas as well as garden peas, do better when inoculated with one of the preparations which help them secrete nitrogen from the soil.

STOCKS (Gilliflower)—A magnificent group of plants extensively cultivated for both summer and winter decoration. The extreme beauty of their flowers and luxuriant foliage, com-



Scabiosa Blue Moon

SPENCER SWEET PEAS—Because of such unusual size, waved or fluted appearance and charming blendings of harmonious colors, the new Spencer type may be appropriately described as Gigantic Orchid Flowered. The flowers are not only of extremely large size, but are distinct in having the outer edges of the standard and wings beautifully crumpled or waved. Sweet Peas are more than flowers—they are a necessity for every garden.

LOCATION—Any location will be suitable that is well drained that that will get free circulation of air. Early planting is essential with sweet peas in order to give the roots a chance to develop more rapidly than the tops during the cool weather. Early plantings produce blossoms before the intense heat of the summer comes which is likely to wilt the plants if they do not have well developed roots. Sowings should be made in furrows 12 inches deep and the seed covered with an inch of soil and the trench filled as the plants grow. It is a help to soak the seeds in lukewarm water overnight before sowing. Use one ounce to twelve feet of row.

AUSTIN FREDERICK—Large pure lavender.

CAPTAIN BLOOD—Brilliant blood scarlet, veneered copper.

PRINCE OF ORANGE—Best deep orange.

REFLECTION—Large, waved, clear blue.

ROYAL PURPLE—Rich purple.

SPLENDOR—Giant deep maroon.

THE ADMIRAL—Violet blue.

All of the above, 10c per packet; oz., 15c; ¼ lb., 50c; lb., \$1.50.

Spencer Mixed Sweet Peas—Pkt., 5c; oz., 10c; ¼ lb., 40c; lb., \$1.25.

Early Flowering Spencer Sweet Peas come into bloom about three weeks earlier than the summer flowering varieties. Sweet Peas do best in cool weather and they will bloom before the summer heat arrives.

If you have not been successful with the late varieties, try some of the Early Flowering.

AMERICAN BEAUTY—Rich crimson rose.

BRIGHT LIGHT—Flaming scarlet.

BURPEE'S ORANGE—Clear orange.

ELK PURPLE—Reddish purple.

HOPE—Pure white.

LADDIE—Giant rose pink.

MEMORY—Clear rosy lavender.

MISS ALABAMA—Deep chocolate maroon.

MRS. CALVIN COOLIDGE—Rich salmon pink.

MRS. HERBERT HOOVER—Clear blue.

bined with their neat, graceful habit, make them one of the most popular and useful for pot culture and bedding purposes.

DOUBLE DWARF—10 weeks. Pkt., 10c; ¼ oz., 20c.

PERFECTION BRAND—Large flowering mixed. Pkt., 10c; ¼ oz., 30c.

SWEET WILLIAM (Dianthus Barbatus)—A well-known attractive, free-flowering plant, producing a splendid effect in beds and borders, with rich, attractive flowers borne in heads or clusters about 18 inches high. Hardy perennial. Double Mixed—Pkt., 10c; ¼ oz., 25c.

TITHONIA (Spacious Mexican Sunflower)—Stately plants with deeply cut, dark green foliage, and gorgeous, brilliant orange scarlet flowers 3 to 4 inches across. Charming for cutting and tall backgrounds. Blooms in late fall. Grows 6 feet. Pkt., 10c.

SPECIOSA GRANDIFLORA FIREBALL—Fireball is a very brilliant, vibrant shade of scarlet orange, the petals in dazzling contrast to the clear yellow center. The gaily colored flowers are single, very large, 4½ to 5 inches in diameter, and are carried on fine long stems. The flowers will keep four or five days when cut. Pkt., 20c.

TORENIA—Small richly colored snapdragon-like flowers borne profusely during summer and fall on compact bushy plants 1 foot tall. Fine for beds or borders.

FOURNIERI—Light blue, blotched deeper blue; yellow throat. Pkt., 20c.

Keep the pods nipped on the Sweet Peas. They will stop blooming if seeds form.

PRIDE—Pure deep cerise.

RED CROSS—Crimson scarlet.

SUPREME ORANGE—Cerise wings, orange standards.

Pkt., 10c; oz., 25c; ¼ lb., 90c.

INNOCULATE
SWEET PEAS
WITH NITRAGIN
BEFORE PLANTING



Snapdragon—Mixed



Spencer Sweet Pea

Kansas, February, 1939

Gentlemen:

I got my Sweet Peas from you last year and they were the nicest I have ever seen.

Yours very truly,

Emily K. Moore

Perfection Brand Verbenas

VERBENA HYBRIDA—Blooming freely all season until frost and in the most brilliant colors. Admirable for solid beds or masses; also for edging. Sow $\frac{1}{8}$ inch deep in boxes or pots of fine soil, transplant to other boxes 3 inches apart, and plant out in a warm, sunny position in the border when all danger from frost is past.

PERFECTION Brand Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 30c; oz., \$1.00.

VERBENA (Beauty of Oxford)—From rose pink to rose red. Pkt., 10c.

CRIMSON GLOW—This is the finest and deepest red available in this popular garden flower. Rich, glowing crimson, the flowers are

a solid mass of color, making a striking bed or border in the garden. Pkt., 15c, postpaid.

HYBRIDA COMPACTA ERECTA FINEST MIXED—This group is very neat and compact in habit. It is a continuous bloomer, particularly adapted for bedding, borders and small gardens. 6 to 8 inches tall. Pkt., 20c.

VINCA (Madagascar Periwinkle)—Handsome ornamental free-blooming very bushy plants, producing round, single flowers measuring $1\frac{1}{2}$ inches across. Fine bedding plants and cut flowers.

ROSEA-ROSE—Pkt., 10c; $\frac{1}{4}$ oz., 20c.

PERFECTION Brand Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 30c.

Zinnias—The Most Colorful Flower of Them All. Plant Them Freely for a Riot of Color

Our Zinnia Seed are grown by Bodger in California, the originator of the Dahlia flowered and other types of Zinnias. No other annual can take the place of Zinnias, with their brilliant flowers of massive size. They have become a general favorite. Zinnias withstand lots of heat, thriving best in a sunny location. For bedding, for borders and for cut flowers, they furnish a wealth of blooms from early summer till late in the fall.



Zinia—Dahlia Flowered

ZINNIA, CROWN OF GOLD—DESERT GOLD—Desert Gold is a variety of dual tone beauty comprising the light and deeper hues of gold, each petal overlaid at the base with deeper golden yellow. The plants are from two and a half to three feet in height, bearing a generous quantity of large, well formed flowers which are equally effective in daylight or under artificial lights. Those who appreciate the finest in Zinnias will welcome Desert Gold. Pkt., 10c, postpaid.

CUT-AND-COME-AGAIN ZINNIAS (Elegans Pumila Dwarf Double)—A semi-tall type of Zinnia; has become very popular. Produces an abundance of medium-sized, well rounded blooms on stems long enough for cutting. The compact bushes keep on blooming from mid-summer until frost, making an attractive display in beds or borders and yielding an abundance of long-keeping cut-flowers for house decorations. In an average soil the plants grow 18 inches tall. Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

Separate Colors—Canary Yellow, Bright Scarlet and White. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

ZINNIA—Tom Thumb Mixture—Tom Thumb is without exception the dwarfest Zinnia known. The plants are rounded and compact, 4 to 6 inches high, literally covered with well formed flowers of the Lilliput type. The color ranges include Red, Orange, Yellow, Pink, Rose and other pastel shades. During the hot dry summer months this is the ideal border plant, and is also adapted for window box and pot work. Pkt., 20c.

ZINNIAS—Gracillima—Red Riding Hood. Deep scarlet, miniature red flowers, 2 to 3 inches, free flowering. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

ZINNIAS—Sanvitalia Creeping—Masses of small Zinnia like, double blooms of deep golden yellow on spreading plants 6 inches tall. Bloom all summer and fall. Fine for edging and rockeries. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

DAHLIA FLOWERED ZINNIAS—MIXED—

In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. Mixed colors, pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 80c.

GIANT DOUBLE DAHLIA FLOWERED ZINNIAS IN SEPARATE COLORS.

Canary Bird—Rich canary yellow.
Crimson Monarch—Deep crimson.
Dream—Deep rosy lavender.
Eldorado—Salmon apricot.
Exquisite—Light rose, deep center.
Illumination—Deep rose self.
Lemon Beauty—Lemon yellow.
Luminosa—Bright deep pink.
Meteor—Rich, deep red, darkest of all reds.
Will Rogers—Loveliest and most brilliant scarlet red.

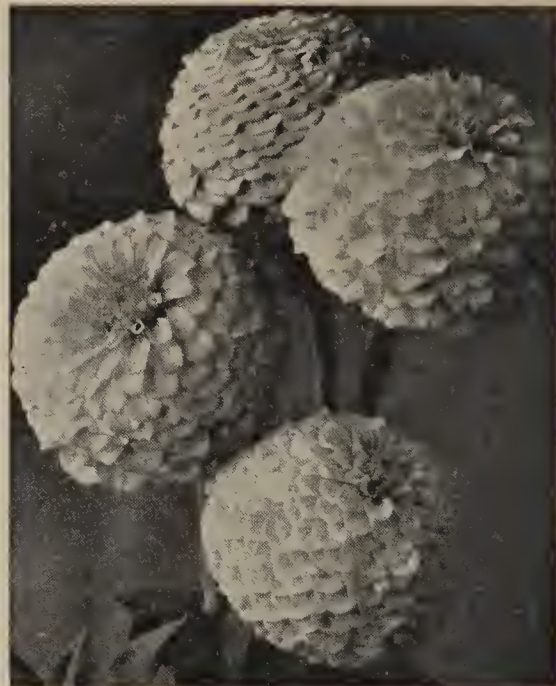
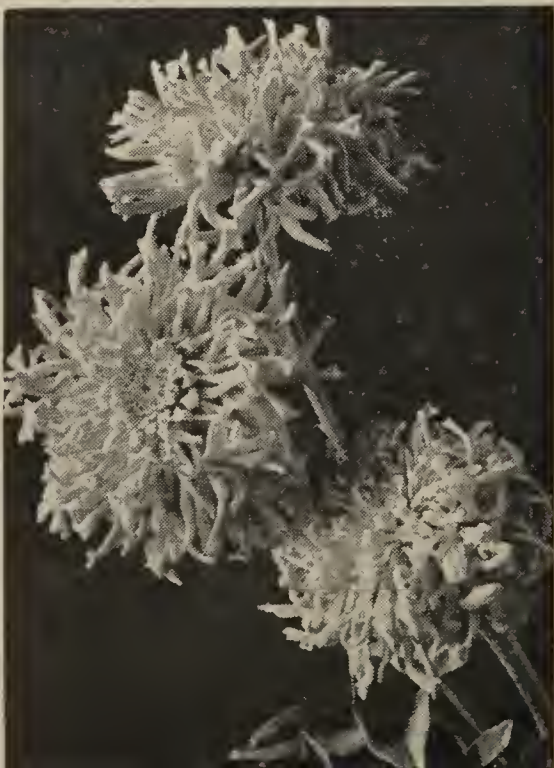
Any of the above, pkt., 10c; $\frac{1}{4}$ oz., 20c, postpaid.

LINEARIS—The most unusual and interesting of the new Zinnias is the little dwarf variety, Linearis. The flowers, which are single, are a lovely shade of golden orange, with a delicate lemon yellow stripe through each petal, while the center is a dark brown in the young flowers, turning golden orange. Pkt., 20c, postpaid.

ZINNIAS, California Giants—Mixed colors. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 80c.

Use a teaspoonful of good complete plant food with every square foot of soil you use to pot indoor plants. Mix thoroughly, and after a month use the same amount spread on top and wet down.

Below—Zinnia—Fantasy Star Dust



Zinnia—Lilliput

ZINNIA FANTASY WHITE LIGHT—As near to a pure white as any Zinnia yet developed. The medium sized, shaggy petaled, informal flowers are lovely in flower arrangements. Plants grow $2\frac{1}{2}$ to 3 feet in height, with stems of good length for cutting, and will flower in 45 to 50 days after seed is planted. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

ZINNIA EARLY WONDER—MIXED—The plants are from 12 to 15 inches high with a profusion of medium-sized flowers and very little foliage. They are very early flowering and require but little space. Colors include many new colors of Orange, Reds, Lavender and Pinks. Pkt., 15c.

LILLIPUT Pastel Mixture—Because of the neat, compact, symmetrical habit of the flowers together with their small size and stem length, they are particularly fine for cutting for bouquets in the house. In the pastel mixture there are very lovely soft shades of apricot, peach, creamy, yellow, shell pink, delicate salmon, light rose and orchid. The plants are 12 to 15 inches in height, neat in habit, compact growing and very free flowering. Produce flowers in about 45 days. Pkt., 10c, postpaid.

CRIMSON GLOW—Crimson.

GOLDEN GEM—Golden Orange.

ROSEBUD—Rose Pink.

WHITE GEM—Pure White.

Pkt., 10c; $\frac{1}{4}$ oz., 20c.

ZINNIA FANTASY—FINEST MIXED—Fantasy is the most fascinating new Zinnia type introduced to the flower world in many years. The informal, shaggy appearing flowers are graceful and interesting, quite distinct from the stiff formal Zinnias to which we are accustomed. The rounded medium-sized flowers are composed of a mass of shaggy ray-like petals which give a delicate, refined appearance. The color range includes the brightest shades of Reds, Yellow and Orange as well as the popular Pastels, Pinks and Cream. Pkt., 10c, postpaid.

FANTASY STAR DUST—Star Dust, the lovely golden yellow variety in this popular type, has the characteristic informal, snaggy petaled, medium sized flowers, on plants $2\frac{1}{2}$ to 3 feet in height, with stems of good length for cutting. The plants are free blooming, making a fine show of color in the garden. Blooms in 45 to 50 days. Pkt., 10c, postpaid.

ZINNIA—Mexican Hybrids, Double Mixed—The small flowered Mexican Zinnias have a charm all their own. The smaller flowers lend themselves to bedding and make a brilliant display. Pkt., 20c.

SCABIOUS FLOWERED MIXTURE—Among the oldest and most attractive Zinnia forms developed. The Scabiosa Flowered type deserves to be more widely grown and better known than at present. Pkt., 20c.

Perfection Brand Flowering Vines and Gourds

Rapid Climbers are excellent to shade porches, cover stumps and hide unsightly places. Everyone who has a porch or room that is exposed to the hot sun all summer long will appreciate what it would mean to have a dense green vine for protection.

BALSAM APPLE (*Momordica Balsamina*)—Very curious, rapid and dense climbers with ornamental foliage. Its large golden yellow fruit opens when ripe and displays its brilliant blood-red inside. Hardy annual. 10 to 20 feet. Pkt., 10c; oz., 30c.

CARDINAL CLIMBER—A very attractive and graceful climber, developing to perfection in sandy soil. The leaves resemble those of a fine Japanese Maple, and the rich scarlet blooms cover the vines completely all during summer and fall. Plant in full sun. Pkt., 10c; ¼ oz., 25c.

CYPRESS VINE (*Ipomea Quamoelit*)—A most beautiful climber with delicate dark green, feathery foliage and an abundance of bright flowers. Planted by the side of a veranda, tree or stakes, it attains a height of from 10 to 20 feet. Annual.

Mixed—Pkt., 5c; ¼ oz., 10c. Red—Pkt., 10c; ¼ oz., 20c.

HARDY SWEET PEAS (*Lathyrus Latifolius*)—Very decorative climbing vines of the Pea family. Flowers are similar to Sweet Peas and are even more showy, but are lacking in fragrance. Mixed colors—Pkt., 10c; ½ oz., 40c; oz., 70c.

JAPANESE HOP VINE (*Humulus*)—It is a rapid climber and one of the best for covering verandas, trellises, unsightly fences, etc. Makes a heavy growth and does well in shade. Pkt., 5c; ¼ oz., 15c, postpaid.

KUDZU VINE (*Perennial*)—A climbing vine with large leaves and fragrant wistaria-like flowers. Forms a dense shade. Pkt., 10c; ¼ oz., 25c, postpaid.



Morning Glory—Heavenly Blue

MORNING GLORY—Scarlet O'Hara. See inside front cover.

MORNING GLORY—Clark's Earliest Heavenly Blue—It is the earliest flowering variety, makes a sparse growth of foliage and is heavily covered with flowers. A beautiful sky blue color which shades at the center to a golden throat. Pkt., 10c; oz., 65c, postpaid.

MORNING GLORY (*Convolvulus Major*)—One of the most free-flowering and rapid-growing annual climbers thriving in almost any situation. Height 10 to 15 feet. Japanese Imperial—Pkt., 10c; oz., 20c.

MADERIA VINE BULBS—One of the best and most popular Climbers for foliage effect. Increases very rapidly. Each, 10c; dozen, 90c, postpaid.

MOONFLOWER (*Evening-Glory Ipomoea*)—Moonflowers are the most gorgeous and versatile of the climbing plants. It does well trained along the roof of a low house or veranda, and its blossoms are delightfully fragrant. If the seeds are notched they will bloom six weeks from sowing. Annual. Giant Pink or White—Pkt., 10c; ¼ oz., 15c; oz., 45c.

HYACINTH BEAN (*Dolichos Lablab*)—(Commonly known as Jack Bean)—A splendid climber with hyacinth-like clusters of flowers which are followed by exceedingly ornamental seed pods. Is of rapid growth and stands heat well but not the cold. Half hardy annual, 10 to 20 feet high. Pkt., 10c; oz., 25c.

SCARLET RUNNER BEAN (*Phaseolus Multiflorus*)—A tall twining plant, covered with crimson blossoms. As an ornamental vine over trellis, arbors, etc., very popular. Annual, growing 12 to 15 feet high. Pkt., 5c; oz., 10c.

Gourds

The dense foliage of the vigorous Gourd vine makes it useful for covering arbors, fences, slopes, or unsightly places.

CAVE MAN'S CLUB—Knobby, club shaped, dark green. Pkt., 5c.

DIPPER—Easily fashioned into a long handle dipper. Pkt., 5c.

LARGE VARIETIES MIXED—Pkt., 5c.

SMALL VARIETIES MIXED—Pkt., 5c.

The ornamental gourds are a decorative feature of any garden, and can be varnished when dried for indoor use.

Perfection Brand Bulbs are Top Size

Darwin Tulips, Hyacinths, Daffodils, Narcissus, Crocus, Calla Lily, Freesias, etc. We carry a complete line, import our Hyacinths, Tulips and Crocus direct from Holland in large lots and offer high-grade bulbs at attractive prices. We issue a Fall Bulb circular during September and if interested, ask for one.

Tuberose Bulbs

Easily recognized by its exquisite fragrance and beautiful flower spikes, which are borne on long stems, making it an admirable cut flower.

DWARF EXCELSIOR PEARL—Each, 10c; doz., 60c, postpaid.

Elephant's Ear

CALADIUM ESCULENTUM—Known to almost everyone. A number of stems come from a single bulb, growing 4 to 5 feet high, with a single leaf, which often measures 18 inches or more across.

Perfection Brand Exceptional Dahlias

STRONG FIELD GROWN DIVISIONS

DECORATIVE—This is the large open faced type with broad, usually flat petals to which class we owe so many of our finest Dahlia flowers.

JEAN KERR—Pure white, fine cut flower. 25c each, postpaid.

JERSEY'S BEAUTY—A perfect bloom of erosion pink, best pink Dahlia to date. 25c each, postpaid.

SAGAMORE—A golden color, shaded toward the center with warm salmon-rose or orange buff. Good stem and keeping qualities. Price, 25c each, postpaid.

PRIDE OF CALIFORNIA—Red. Each, 25c, postpaid.

THOS. A. EDISON—Royal purple. 30c each, postpaid.

AVALON—Deep canary-yellow. 30c each, postpaid.

JERSEY BEACON—Chinese Scarlet. 30c each, postpaid.

Pompom Dahlias

Fully double flowers, ball-shaped or slightly flattened.

SNOWCLAD—Pure white.

CATHERINE—Canary yellow.

JOHNNIE—Bright red.

FASHION—Orange and buff.

BOBBY—Deep plum purple.

ROSE WILMOTH—Bright pink.

All 30c each; \$3.00 doz., postpaid.



Dahlia



Cannas—City of Portland

Cannas

Our stock is first-class in every respect. We handle enormous quantities of Canna Bulbs and can offer at the following attractive prices:

PRESIDENT—Four feet. One of the most popular reds. Flowers are rich, glowing scarlet of immense size. Green leaves. Strong grower. Each, 10c; doz., 65c; 100, \$3.25, postpaid.

KING HUMBERT—Five feet, bronze foliage. Flowers very large, five to six inches across. Flowers a glowing scarlet or orange red, often streaked with gold. Each, 10c; doz., 50c; 100, \$3.00, postpaid.

RICHARD WALLACE—Dainty shade of Canary yellow, about four feet tall and having bright green foliage. Each, 10c; doz., 50c; 100, \$3.00, postpaid.

CITY OF PORTLAND—Salmon Pink. Large flowers, height four feet. Foliage green. Each, 10c; doz., 75c; 100, \$4.00, postpaid.

MIXED COLORS—Each, 10c; doz., 50c; 100, \$2.75, postpaid.

For a Rainbow of Color—Plant Gladioli

Perfection Brand Gladioli Bulbs



Gladiola—Picardy

Plant in the spring when all danger of frost is over. Plant bulbs four to eight inches apart in the row and from three inches deep in heavy soil, to five inches deep in lighter, sandy soil; the deeper planting will keep the plants from falling over at blooming time. Keep soil well worked; keep soil crust from

forming in the rows after rains or other watering. Our bulbs are grown in Oregon, where the soil and climate are especially adapted to producing strong, healthy bulbs.

OREGON GROWN GLADIOLUS BULBS ARE CLEAN AND SOUND, FREE FROM DISEASE AND SURE TO BLOOM.

All No. 1 Bulbs—large size.

COPERNICUS—Very brilliant orange-bronze, yellow throat.

GATE OF HEAVEN—A wonderfully strong, pure yellow variety. Color very rich yellow and the florets, which are well spaced, are beautifully ruffled, large and of good substance.

MILFORD—Tall, light blue with seven or more good size blooms open. This is considered to be about the best light blue so far produced.

ORANGE SOVEREIGN—Early light orange. Very tall plant with long spike of bloom having eight or more large blooms open.

PELEGRINA—A pure, dark violet-blue, the two lower petals somewhat darker. Very attractive.

PICARDY—Soft, shrimp pink.

ROSEMAIRE PFITZER—Color very light pink with creamy hue, bearing a dozen slightly ruffled round flowers.

MOORISH KING—Color a very dark mahogany-maroon with velvet sheen. Long, strong stems carrying many florets. A splendid variety.

STAR OF BETHLEHEM—A pure white gladiolus which, in its color class, is probably the largest and best variety in existence. Color snow white with tinge of cream on the lower petals. Long stems.

JOHN S. BACH—This gladiolus is an exquisite very early-flowering exhibition variety. Color fine orange salmon, somewhat lighter in the throat. Strong grower.

Try our Oregon grown bulbs. They are the cream of the crop.

ALL THE ABOVE VARIETIES, 85c dozen, postpaid. Ask for quantity prices.

MIXED GLADIOLUS BULBS—All No. 1 size, and a good mixture with a great range of colors. 35c per dozen, \$2.50 per 100, postpaid.

HYDRATED LIME

An occasional application of Hydrated Lime on the lawn will correct acidity in the soil. Acid soils are usually caused by constant sprinkling and very often in shaded places of the lawn will be found a surface growth of green moss. Hydrated Lime will correct this by simply being applied on the surface and sprinkled. It loosens up heavy soils and prevents packing, baking and cracking. It promotes the normal decay of organic matter in the soil. It requires about one-half as much Hydrated Lime as any other form of lime to produce same results. Price for 10 lb. pkg., 20c each; 40 lb. bags, 45c.

PERENNIAL PLANTS FOR SPRING DELIVERY

During Spring months we will have a stock of the following:

Digitalis or Fox Glove	Cherianthus Siberian Wall-flower	Stckesia Cyanea Cornflower Aster
Hollyhocks Chaters Double	Hardy Blue Salvia	Rudbeckia Purpurea Cone-flower
Aquilea or Columbine Long Spurred	Pyrethum Persian Daisy	Shasta Daisy
Canterbury Bells	Dianthus Plumarius	Correopsis
Anthemis Kelways Yellow	Sweet William	Gallardia
Alyssum Saptile Compactum	Linum Perennial Flax	Hardy Ageratum
Prices Quoted on Request		

Legumes Worth Planting Are Worth Inoculating

Inoculate All Legumes

WITH

Alfalfa
All Clovers
Soy Beans
Cow Peas



Vetch
Peas, Beans
Peanuts
All Legumes

BUILD UP YOUR SOIL

Inoculate Your Legumes With NITRAGIN

Make the most of your seed, soil and labor. Don't let legumes rob your soil! If not inoculated they steal fertility—when inoculated with NITRAGIN they draw nitrogen from the air . . . grow faster, heavier . . . make more and richer feed . . . return more nitrogen and organic matter to the soil . . . protect and build up the soil.

ORIGINAL—APPROVED—TESTED

NITRAGIN is the original inoculant . . . tested and bred by scientific selection and has been used by farmers for 40 years.

Every can bears the annual expiration date for your protection and is branded with the number of billions of efficient bacteria packed into each can.

NITRAGIN is an approved moist humus culture—easy to apply. Directions on every can. Its high quality makes NITRAGIN the cheapest legume crop insurance money can buy.

INOCULATE ALL LEGUME SEEDS WITH

NITRAGIN

OVER FORTY YEARS OF SERVICE

When ordering, Always state name of seed.

ALFALFA, all Clovers

Size	Retail
1/2 bu. each.....	.30
1 bu. each.....	.50
2 1/2 bu. each.....	1.00

PEAS (All Varieties)

VETCHES (All Varieties)

1/2 bu. each.....	.25
1 bu. each.....	.40
1 2/3 bu. each.....	.60
5 bu. each.....	1.70
12 1/2 bu. each.....	4.00

BEANS

String, Wax, Kidney

1/2 bu. each.....	.25
1 bu. each.....	.40
5 bu. each.....	1.70

LESPEDEZA

Size	Retail
1 bu. each.....	.30
2 bu. each.....	.50
5 bu. each.....	1.00

SOYBEANS, LIMA BEANS, COW PEAS, PEANUTS

1 bu. each.....	.30
2 bu. each.....	.50
5 bu. each.....	1.00
10 bu. each.....	1.40
25 bu. each.....	2.90

GARDEN SIZE

Garden Peas & Beans Sweet Peas & Lupines

Enough for 6 lbs. seed
Retail Price.....10c each

Perfection Brand High Tested Farm Seeds

INNOCULATE

Alfalfa, All Clovers,
Soy Beans, Cow Peas,
Vetch, Peas, Peanuts
and all other
Legumes

See Page 20



Alfalfa

ALFALFA is the most profitable crop by far grown in Kansas, Oklahoma, Texas, New Mexico, Arizona, Colorado, Idaho, Utah, Wyoming and Nebraska. No other crop on a twenty-year average produces nearly as many dollars per acre as does Alfalfa.

Cultivation is very simple, the essentials being well drained soil, at least eight feet to permanent water, shallow planting, thorough harrowing and packing.

PERFECTION BRAND ALFALFA SEED is the highest grade of American grown seed, testing 99.50 per cent pure. Per lb., 35c, postpaid; by freight or express, lb., 30c; 10 lbs., \$2.50. Write for special price in quantities.

Clover

WHITE CLOVER—For lawn purposes this is very desirable on account of its creeping stems. It spreads rapidly and acts as a binder; very hardy; in permanent pastures is of considerable value. Lb., \$1.00, postpaid.

BLACK MEDIC—A wonderful clover that is hardy enough to be grown as far north as the Ohio River. It spreads as fast or faster than most any other clover, and the only soils it will not thrive on, provided they are sweet, are the loose sandy and water soaked type. May be sown from early September to March, the earlier the better. It is an excellent hay plant, even with a short growth, and it has no equal for permanent pastures for late winter and spring grazing, dying down by July, and re-seeding with the closest grazing. It can also be used to excellent advantage for cover crop. Sow 10 to 15 lbs. per acre. Lb., 35c, postpaid. Ask for quantity prices.

KOREAN LESPEDEZA—This variety makes a larger growth than ordinary Japan Cover. 15 to 24 inches, single plants having a spread of 3 ft.; has larger leaves; furnishes pasturage about three weeks earlier. The strong root growth penetrates about 8 inches deep, making it highly drouth resistant, and thriving on poor, wornout soils where alfalfa and clovers would fail. Its feeding value is about equal to Alfalfa; has no woody stem; holds its leaves well, and produces a full crop the first season. When sown alone broadcast 10 to 15 pounds per acre, during late freeze after a light harrowing, but do not cover the seeds. Per lb., postpaid, 25c; 10 lbs., \$2.00. Write for prices on quantities.

YELLOW HOP CLOVER—It is a very valuable winter and spring clover, and reseeds abundantly. It responds well in increased growth to an application of phosphates, as do all winter legumes. Sow 4 to 8 lbs. per acre. Lb., 50c, postpaid. Ask for quantity prices.



A Field of Perfection Brand Alfalfa

Clover

RED CLOVER—The most important and best known of all clovers, being used for pasture, hay, and enriching the land. For the latter purpose, it is considered the cheapest fertilizer known. Lb., 40c, postpaid; by freight or express, lb., 35c; 10 lbs., \$3.00.

ALSIKE OR SWEDISH CLOVER—The heads are globular, very sweet and fragrant and much liked by bees, which obtain a great amount of honey from them. It produces a great amount of herbage during the season; the stalks are very fine; it makes a valuable hay crop where other clovers fail. Sow from 4 to 6 pounds per acre. Lb., 45c, postpaid; by freight or express, lb., 40c; 10 lbs., \$3.75.

Sweet Clover

Sweet Clover is a crop that is hardy; defies wet and drouth; never winter kills, and will grow on land that will not produce Alfalfa. Many wet, waxy soils are being farmed unprofitably by other crops that would produce a large crop of Sweet Clover, and furthermore, Sweet Clover will turn that poor land into land that will, within four or five years, be nearly 100 per cent better for any other crop that the farmer wants to put there.

Sweet Clover has long, deep roots that permit water and air to penetrate to the lower levels of the soil and thus greatly aids the mechanical condition of the soil. As Sweet Clover is a legume it increases the nitrogen content of the soil. Wheat, Corn or Alfalfa grown on a field following Sweet Clover are greatly improved. Yields of 10, 15 and 25 per cent increase are not at all uncommon.

Sow in the spring. It takes about twenty pounds of hulled seed to the acre. White or yellow, 20c per lb., postpaid. Write for prices in quantities.

Soy Beans

Soy Beans are very erect, growing with from one to six stems or more, branching out from the roots and reaching a height of 1½ to 3½ feet; seldom falling down, except in very rich, loose soil. Soy Beans are a remarkable drouth-resister, and will do comparatively well on thin land; however, they respond very readily to moisture and rich land. Planting should not be done until the weather is warm and after the corn planting.

LAREDO SOY BEANS (Plant 15 pounds per acre)—A very small black bean and recognized as one of the best hay varieties. One of the good features of the Laredo, is that it can be planted earlier than other varieties with the assurance of getting good germination, as the seed will stand more abuse from weather than any other Soy Bean. Laredo is medium early and a good grain yielder; it is bad about shattering and must be harvested when ready or a loss will result. Matures in 120 to 130 days. Yield around 2 tons per acre. Ask for prices when ready to buy.

VIRGINIA SOY BEANS (Plant 20 pounds per acre)—A small brown seeded variety. Early. Will make hay in 60 to 80 days. Matures in 100 to 120 days. A very good grain yielder, but shatters badly when ripe. Should be harvested for seed while foliage is still on stalk in order to avoid loss. Ask for prices when ready to buy.



Cutting Clover



Laredo Soy Beans



Mung Beans

Mung Beans

Mung Beans bid fair to outrival anything yet discovered as a hay, forage and soil improving crop. Mung Beans are drouth resistant and have made wonderful crops of hay and forage where cow peas and soy beans have been killed off completely by the blistering and withering heat of an extended summer's drouth.

Mung Beans mature about fifteen days earlier than Soy Beans and Cow Peas and invariably have produced larger tonnage of hay and forage as well as large production of beans. Grows 4 to 6 feet tall and is one of the finest soil improvers discovered. 2 lbs. of Mung Beans will produce about 2 tons of cured hay. Requires about 4 lbs. per acre. Plant in rows about 3½ feet apart and 2 to 4 inches apart in the rows. Trial pkt., 10c; lb., 25c; 5 lbs., \$1.00, postpaid. Larger quantities, write for prices.

GREEN SEEDED—Lb., 20c; 10 lbs., \$1.50, postpaid.

GOLDEN OR YELLOW SEEDED—Lb., 25c; 10 lbs., \$2.00, postpaid.

Prices

Field Seed prices fluctuate considerably and for this reason we do not quote quantity prices in our catalogue. We issue a field seed price list throughout the planting season with lowest market prices and we will be glad to mail list on request.

Sunflower

MAMMOTH RUSSIAN—Produces very large heads, which are completely filled with the striped grains. It succeeds everywhere, and requires very little rain to insure a good crop. It makes a good food for stock and cannot be equaled as a food for poultry. Plant when the ground has become warm at the rate of 22 pounds to the acre. Lb., 35c, postpaid; by freight or express, lb., 30c; 10 lbs., \$2.00.



Peanuts—Mammoth Jumbo

Field or Cow Peas

THE GREAT SOIL IMPROVER—Makes poor land rich; makes good land more productive; also makes a splendid and nutritious green forage or hay crop, enriching the soil even when the crop is cut off. Cow Peas make one of the largest yielding and most nutritious crops grown. There is also no surer or cheaper means of improving and increasing the productiveness of the soil and it is really considered more economical and the best way is to cut off the crop of vines and cure them as a forage or hay crop and then turn under the stubble and roots. Even when the crop is cut off, the land is left in very much better mechanical condition and the productiveness very much increased over what it was before the crop was grown.

BLACK-EYED PEAS—A very fine table pea much in demand by market gardeners. Pods are of good size and the peas are crowded in the pod. Lb., 25c, postpaid.

NEW ERA—Probably the best sort for the West and North; can be sown after the wheat is taken off the ground and still produce a good crop of forage peas, besides increasing the fertility of the soil for the succeeding crop, and leaving the ground mellow and free from weeds. Ask for prices.

WHIPPOORWILL PEAS—A favorite in the South generally. A vigorous, healthy grower, yielding an abundant crop of forage and grain. Write for prices.

CREAM CROWDER PEAS—It is not only one of the earliest to mature, but also makes a large and vigorous growth, and is one of the most prolific and best for edible peas, both for home use and market. The size of the pea is large and they are of most delicious flavor when cooked, and preferable for table use to other varieties. This also makes a quantity of vine. Price, lb., 30c, postpaid.

BROWN SUGAR CROWDER PEAS—One of the most valuable varieties for table use. Heavy bearers of the finest quality. Lb., 25c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.50.

GALLAVANT OR LADY—The peas are small in size, of very fine flavor; superior in qualities to the Black-Eyed Peas. Very prolific. Price per lb., 25c, postpaid. By express or freight, lb., 20c; 10 lbs., \$1.50.



A Field of Perfection Brand Cow Peas

Peanuts

Culture—Prepare the ground well, laying it off in rows, with a shovel-plow; the rows should be 3½ feet apart, and put two kernels to the hill, which are about 1 foot apart. Cultivate thoroughly, and keep the land as level as possible. Three-fourths of a bushel of unshelled nuts will seed an acre.

MAMMOTH JUMBO—This variety grows to an astonishing size. The plants make compact bushes about 18 inches high, with heavy, erect stalks and large leaves. The giant nuts have thick, heavy-ribbed shells. Lb., 30c, postpaid. Write for prices in quantities.

TENNESSEE RED—The finest variety grown. Especially adapted to the black waxy land, as well as the sandy soil. The nuts contain three large kernels in each pod, and are enormously productive. Lb., 20c, postpaid.

SPANISH—In addition to their value for growing for nuts, these are very largely used in the South as a forage and fattening crop for hogs and other stock. They are early to mature, very productive, and in the far South, where they can be planted during March and April, two crops can be made in one year, the second crop being planted early in July, the tops making a hay crop and the nuts a grain crop. They grow more compact than the Virginia peanuts, making it possible to grow them closer, making cultivation easier also. This variety frequently yields 60 bushels of marketable peanuts and 2 tons of hay per acre. Lb., 20c, postpaid.

Fall Planting

During the fall months we have large stocks of selected high quality Seed Rye, Rye Grass, Crimson Clover, Burr Clover, Seed Wheat, Winter Barley (both bearded and beardless), Hairy Vetch, Austrian Winter Peas, Hungarian Vetch, Alfalfa, Red Clover, Timothy, Red Top, Orchard Grass, Meadow Fescue, Kentucky Blue Grass.

If interested in seeds for fall planting, we will appreciate your inquiries.

Wilt-Resistant Ramshorn Black Eye Peas

Our improved strain of famous Ramshorn Black Eye Peas are resistant to wilt, nematodes, charcoal rot and other diseases that materially reduce the growth, yield and quality of other black eye peas. Matures green peas in about 70 days, dried peas 80 days. They are identical in appearance and growth to the ordinary Ramshorn Black Eye Peas except the peas are much larger, more uniform, brighter color and better quality. Yield about twice as much on non-wilt land and 4 to 6 times as much on wilt infested land. They make more pods, pods are longer, better filled and peas will not pop out if left to ripen. While this variety is new to this state, it has yielded as high as 4,000 pounds per acre in Virginia. Price per lb., 40c, postpaid; by freight or express, 30c per lb. 10 lbs., \$2.25. Ask for prices on larger lots.

Plant More Legumes for
Soil Improvement

VIGORO
Complete plant food

For
LAWNS
FLOWERS
SHRUBS
TREES
VEGETABLES



A Single Plant of Rape

Dwarf Essex Rape

Sow 5 to 7 pounds per acre. As a healthy fattening food it has no equal. It stands without a rival in point of cheapness and feeding qualities. It is an annual, bearing a close resemblance in leaf and stalk to the rutabaga, but both leaves and stalk are more numerous in the rape plant and of a taller habit of growth. Dwarf Essex Rape thrives best on a good soil rich in vegetable matter. Slough lands are excellent. It is the simplest crop grown. It can be sown anywhere and everywhere at all times after danger of frost has passed.

It may be sown in early spring to provide summer pasture for stock. Plow the ground same as for turnips, and sow 5 pounds per acre broadcast.

Special prices on large quantities. Lb., 20c, postpaid. By freight or express, lb., 15c; 10 lbs., \$1.25.

Winter Legumes for Fall Planting

Hairy Vetch Hungarian Vetch
Crimson Clover Southern Burr Clover
Austrian Winter Peas

FOR WINTER PASTURE—Plant Winter Rye Grass during September. Rye Grass is the fastest growing grass known. Makes more pasture than Wheat, Rye, Oats or Barley. Lasts up to latter part of June, when if given a chance will reseed itself, starting to grow again when fall rains set in.

RYE GRASS also makes a fine green fall, winter and spring lawn sown on Bermuda sod or as a new lawn. We issue a special circular in August on Winter Legumes and Rye Grass and will be glad to mail copy on request.

Perfection Brand Seed Corn

Ohio Grown Corn

All early varieties. For early maturing corn and for uplands we recommend our Ohio grown Seed Corn.

	Per Pk.	Per Bu.
Early Yellow Dent	\$.60	\$2.25
Early White Dent .....	.70	2.50

Oklahoma Grown Corn

For main crop. Hand picked, butted and tipped.

	Per Pk.	Per Bu.
Reid's Yellow Dent	\$.60	\$1.75
Silver Mine .....	.60	1.75
Red Mexican June .....	.60	1.75
White Mexican June .....	.60	1.75
Yellow Mexican June .....	.60	1.75
Southwestern Yellow Dent .....	.60	1.75

Popcorn

Culture—Popcorn is a very profitable crop, yields well even in unfavorable seasons and there is most always a good market for it. Plant at rate of 3 to 4 quarts per acre in drills 3 feet apart, dropping seed 1½ feet apart in the rows. Or plant in hills, using 4 to 6 pounds of seed per acre. Cultivate the same as field corn. May be planted with regular corn planter, using special plates.

MAMMOTH SWEET WHITE—Lb., 25c; 5 lbs., 90c, postpaid.

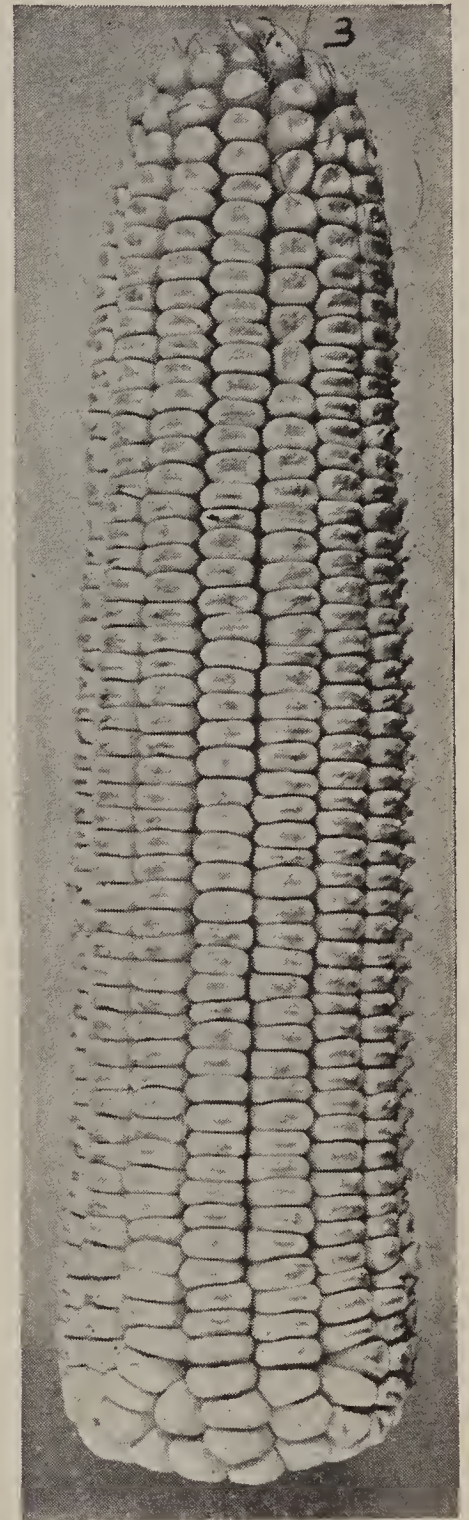
SOUTH AMERICAN LARGE YELLOW—Our stock of this variety is grown in Ohio especially for seed purposes. If you grow pop corn for the market plant Ohio seed as it is the true rounded seeded type that is in demand by the poppers. Price, 20c per pound; 5 lbs., 90c, postpaid.

Be sure to treat your Corn
Seed with Semesan Jr. See page
31.

Buckwheat

Buckwheat is used mostly for filling fields unplanted after the first of June. The blossoms furnish a large amount of honey for bees. It is well to remember that on worn-out soils a plowed-under buckwheat field is a great fertilizer and improver. Sow 25 lbs. to an acre.

JAPANESE—A popular and standard sort. Very large grains of dark brown color; early and heavy-yielding. Choice re-cleaned seed. Lb., 15c; 10 lbs., \$1.30, postpaid.



Reid's Yellow Dent

Perfection Brand Saccharine Sorghum (For Forage)

JAPANESE HONEY DRIP CANE

While this variety is grown extensively for syrup, it is an ideal sort for silage, when a large tonnage per acre is desired. Usually grows 10 to 12 feet tall, producing 60 to 100 gallons of fine flavor syrup per acre. Our stock was grown especially for us from high bred seed. Lb., 30c, postpaid.

EARLY ORANGE—Matures a grain crop in 100 to 120 days. It is later than the Amber. Its stalks are heavier and shorter than the Amber. Its forage quality is first-class. It is very valuable for ensilage. One of the heaviest producers of ensilage of the entire sorghum family. Fodder quality.

RED TOP or SUMAC—In our opinion this is the best variety for forage or dry hay. The stalks are much smaller than either of the Amber or Orange varieties. It requires 130 to 140 days to mature a seed crop. We do not recommend this variety for ensilage as strongly as we do the larger stalk varieties, but many of our customers say it makes very excellent ensilage. There is no better quality for forage than the Red Top. It will remain sweet and wholesome until late in May of the year following harvest.



Sugar Drip Cane



Black Amber

Perfection Brand Grain Sorghums



A Field of Perfection Brand Hegari

Darso

DARSO is low growing, heavily foliaged, and has a large stalk which is usually tinged with red. It is remarkable for its uniformity in height and uniformity in shape and color of heads. The stalks are sweet and juicy, and chemical analysis of grain shows that the composition is very similar to that of Kafir. Darso matures earlier than Kafir, which fact has much to do with its drouth resistance. Darso makes excellent silage, and can be used for grain, forage or silage crop. Lb., 20c, postpaid.

Millet

CULTIVATED GERMAN MILLET—Our stock of big German Millet is grown in rows and cultivated for seed purposes only. This makes a large yielding and most nutritious hay crop, quick growing and easily cured. Grows 4 to 5 feet tall with heads 5 to 6 inches long. Per lb., 15c, postpaid.

OUR FIELD SEEDS ARE ALL OF VERY HIGH QUALITY

There are several grades of field seeds on the market and prices differ according to grade. Be careful when buying, especially when you see seeds offered for considerably less than market value. **ASK FOR PRICES WHEN YOU ARE READY TO BUY**

ATLAS SORGO—Has a sturdy, leafy stalk abundantly juicy and sweet. The heads are fairly compact, somewhat cylindrical in shape with short branches well filled with white seed similar in size and shape to kafir. Grows to a height of 7 to 10 feet and requires from 120 to 130 days to mature. Atlas is noted for its resistance to lodging, superior quality of grain, high yield and excellence of forage. Selected seed grown from Certified stock, lb., 15c, postpaid. Certified Seed, lb., 20c, postpaid. Write for quantity prices.



Millet—Big German

Kafir

KAFIR—The uplands of Kansas, Oklahoma and Texas will give much better cash returns when planted to Kafir, because when ground for feed, gives practically the same feeding value as corn. It does not require very much Kafir seed an acre when drilled in rows $3\frac{1}{2}$ feet apart. 2 to 4 pounds of seed to the acre is all you will need. If you want to sow the seed broadcast or drill it with a drill for fodder, use 50 to 75 pounds per acre.

DWARF BLACKHULL WHITE KAFIR—Lb., 20c, postpaid.

Hegari

HEGARI—A new grain or forage crop similar to both White Kafir and Feterita. It is more desirable for grain than either, as the bad qualities of both have been eliminated. Feterita shells out pretty badly, and Hegari will not shell. Feterita is soft and pithy, while Hegari is solid and sound and with plenty of blades. Its dwarf habit of growth, 4 to 5 feet in height, and compact heads of large white grains make it very attractive. Hegari also produces large crops of grain. The stems are rather sweet and horses and cattle eat the stalks, fodder and grain if permitted to do so.

ARIZONA GROWN HEGARI—Registered stock, well re-cleaned and of high germination. Per lb., postpaid, 20c. By freight or express, lb., 15c; 10 lbs., \$1.00; 50 lbs., \$3.50.

Feterita

FETERITA—Has a slender dry stalk, normally $4\frac{1}{2}$ to 6 feet tall, only medium leafy, and of relatively low value for forage. The heads are erect and compact. The soft seed of Feterita rot quickly in cold wet soil, and best results are obtained when planted late. Is quick maturing and is noted for its smut resistance. When Feterita gets up about eight inches high, it branches out from four to eight sucker plants and each of these plants grow up the same as the main plant, however, the main plant will ripen 15 to 25 days earlier than the sucker plants. Lb., 20c, postpaid. Ask for quantity prices.

Milo

DWARF YELLOW MILO—A dwarf improvement of the old Standard Yellow Milo. Grows 3 to 4 feet high, while the old variety grew 8 to 10 feet. Dwarf Milo is quite similar to the Standard Milo, but the heads all invariably bend over from the weight. It is not unusual for a head of Dwarf Milo to weigh one pound. The feeding value is the same as Yellow Milo. This variety seems to be more popular throughout the western plans of Kansas and Oklahoma. Lb., 20c, postpaid.

Field Seed prices fluctuate considerably and for this reason we do not quote prices in our catalogue. We issue a field seed price list throughout the planting season with lowest market prices and we will be glad to mail list on request.

Root Crops for Stock Feeding—Mangel Beets



Mangel Beets—Mammoth Long Red

CULTURE. The Mangels may be grown in almost any soil, but deep loams are necessary for heavy yields of the long varieties. When well grown the roots give immense yields of very valuable food for stock. Plant early in the spring in drills two to three feet apart and cover the seed about $1\frac{1}{2}$ inches. Cultivate frequently. When about three inches high begin thinning and continue at intervals until the roots stand 8 inches apart in the rows. Use a packet to 25 feet of drill; an ounce to 100 feet; 6 to 8 pounds per acre.

MAMMOTH LONG RED—The roots of this variety grow to a larger size than those of the other sorts. They are well formed, with flesh of a blood-red color. Very nutritious. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c, postpaid; by freight or express, lb., 40c; 10 lbs., \$3.50.

GIANT HALF SUGAR MANGEL—This is a hybrid, or cross between the Mammoth Long Red and Sugar Beet, and in feeding value is far superior to either. As heavy a cropper as the mangels, sweeter and much relished by cattle and hogs. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; lb., 50c, postpaid; by freight or express, lb., 40c; 10 lbs., \$3.50.

Perfection Brand Pasture Grasses

See Inside Back Cover for Perfection Brand High Germinating Lawn Grasses

SUDAN GRASS—The heaviest-yielding, most drouth-resisting hay grass ever introduced. Sudan Grass combines all the good features of Johnson Grass and has none of the objections. Sudan Grass is sown in the spring, as soon as danger of frost is past, either broadcast or in rows so that it can be cultivated. If in rows, 3½ feet apart, 5 to 6 pounds to the acre will be required; if sown broadcast, 15 to 20 pounds. It stools freely and often from 80 to 100 plants may be found coming from one seed. As a drouth-resister, it has no equal, and may be depended upon when all other grasses succumb to dry weather. It may be mowed or cut with binder; the latter method is preferred, as Sudan Grass cures admirably well in shocks. **Lb., 25c, postpaid.** Write for prices in larger quantities.

Write for lowest market prices when ready to buy.

KENTUCKY BLUE GRASS—An excellent pasture and lawn grass, succeeding best on limestone land, but does well on stiff or clay soils. It is rather sensitive to heat, but not to cold weather, and on this account does best in the spring, fall or winter. Sow in the fall or spring at the rate of 2 or 3 bushels to an acre. **Lb., 50c, postpaid.**

For lawns, sow 1 lb. to 150 square feet. Kentucky Blue Grass is adapted to shady spots, but as our soils lack lime it is advisable to use pulverized limestone at least once a year at the rate of 3 to 4 pounds per 100 square feet.

MEADOW FESCUE—Commonly called English bluegrass, produces a fairly good sod and withstands pasturing very well. It is grown chiefly in the region north of the cotton belt. It is best adapted to fertile and moist soils, rather than poor uplands, and does fairly well in the shade. Meadow fescue is used mostly in mixtures, and is valuable for supplying pasturage while slower growing species are being established. It has a limited adaptation in northeastern Oklahoma, and provides grazing during cooler season. When grown alone it is seeded at the rate of 15 pounds per acre. **Per lb., 35c, postpaid.**

RED TOP—Grows well in all soils, whether sandy, thin, dry lands or rich, wet soils. It is one of the most satisfactory grasses that can be sown; a fine pasture grass and is well suited for meadows. It sends out shoots at the base that take root at every joint, forming a dense thick sod. Sow 10 pounds to the acre. **Lb., 30c, postpaid.**

POA TRIVIALIS—It is very similar to Kentucky Blue Grass. Leaves are apple green color. It spreads by stolons or creeping branches on the surface of the ground. It is adapted for sowing in shady and cool moist places. **Per lb., 70c, postpaid.**

SEASIDE BENT GRASS—(Certified)—It is a creeping variety forming close mat-like sward and is very desirable for putting greens. Does well in moist situation, making a rapid growth of fine texture. **Price, lb., 95c, postpaid.**

ORCHARD GRASS—This is one of the most valuable and widely known of all pasturage grasses, coming in early in the spring and remaining green later in the fall than any other. It grows about 2½ feet high, producing an immense quantity of leaves and forage. Sow 1½ bushels to an acre, either spring or fall. **Lb., 40c, postpaid.**



Orchard Grass



Sudan Grass

SPECIAL DIRECTIONS ABOUT SOWING—Nearly all grass seeds are very small and will not come up satisfactorily unless put in properly, and again, most planters will not use enough seed to the acre. The soil should be thoroughly prepared by deep breaking and thorough harrowing until a smooth bed is made, and the ground should be settled before sowing. After sowing the seed, very little covering should be given with a brush or harrow that will cover it lightly. If the weather is likely to be dry, the ground should be pressed over the seed, so as to bring the seed in close contact with the soil to hold the moisture until the seeds get a good start.

Sow More Permanent Mixtures of Grasses and Clovers

Write and tell us about your land. We will quote you on your requirements.

We are large dealers in Cow Peas and are in a good position to quote you attractive prices in lots of one bushel to a carload. Write us. If you have Peas to sell, send us a sample, stating quantity you have to offer. Make up and send us your order early.

The Planter's Guide

NUMBER OF PLANTS REQUIRED TO THE ACRE

Distance Apart	No. of Plants
1 foot by 1 foot.....	43,560
1½ feet by 1½ feet.....	19,360
2 feet by 1 foot.....	21,780
2 feet by 2 feet.....	10,890
2½ feet by 2½ feet.....	6,969
3 feet by 2 feet.....	7,600
3 feet by 3 feet.....	4,840
4 feet by 4 feet.....	2,722
5 feet by 4 feet.....	2,178
5 feet by 5 feet.....	1,742
6 feet by 6 feet.....	1,210
8 feet by 8 feet.....	680

AVERAGE TIME REQUIRED FOR GARDEN SEED TO GERMINATE

Beans	5 to 10 days
Beet	7 to 10 days
Cabbage	5 to 10 days
Carrott	12 to 18 days
Cauliflower	5 to 10 days
Corn	5 to 8 days
Cucumber	6 to 10 days
Endive	5 to 10 days
Lettuce	6 to 8 days
Onion	7 to 10 days
Peas	6 to 10 days
Parsnip	10 to 20 days
Parsley	15 to 21 days
Pepper	9 to 14 days
Radish	3 to 6 days
Spinach	7 to 12 days
Salsify	7 to 12 days
Tomato	6 to 12 days
Turnip	4 to 8 days

NUMBER OF PLANTS PRODUCED FROM AN OUNCE OF SEED

Asparagus	About 300
Cabbags	About 2,000
Cauliflower	About 2,000
Celery	About 3,000
Egg Plant	About 1,000
Endive	About 3,000
Kale	About 2,000
Lettuce	About 3,000
Pepper	About 2,000
Tomato	About 3,000

TIME REQUIRED FOR MATURITY OF DIFFERENT GARDEN CROPS RECKONED FROM DAY OF PLANTING THE SEED

Beans—String	45 to 65 days
Beans—Shell	65 to 75 days
Beets—Table	65 days
Beets—Stock	150 days
Cabbage—Early	105 days
Cabbage—Late	150 days
Cauliflower	110 days
Corn	70 to 120 days
Egg Plant	150 to 160 days
Lettuce—Heading	65 days
Melon—Water	120 to 140 days
Melon—Musk	120 to 140 days
Onion	135 to 150 days
Pepper	140 to 150 days
Radish	30 to 40 days
Squash—Summer	60 to 65 days
Squash—Winter	125 days
Tomato	125 to 150 days
Turnip	60 to 70 days
Spinach, Av. Time	45 to 65 days

QUANTITY OF SEED TO SOW A SINGLE ROW OF 100 YARDS

Asparagus	8 ozs.
Beans, Bush	6 lbs.
Beans, Lima	3 lbs.
Beans, Pole	3 lbs.
Beet	3 lbs.
Broccoli	3 ozs.
Brussels Sprouts	3 ozs.
Cabbage	2 ozs.
Carrots	3 ozs.
Cauliflower	3 ozs.
Celery	3 ozs.
Corn	1 lb.
Cress	4 ozs.
Cucumber	4 ozs.
Dandelion	3 ozs.
Egg Plant	1 oz.
Endive	2 ozs.
Leek	3 ozs.
Lettuce	2 ozs.
Melon, Musk	2 ozs.
Melon, Water	2 ozs.
Mustard	4 ozs.
Okra	3 ozs.
Onion (for large bulbs)	2 ozs.
Parsley	2 ozs.
Parsnips	2 ozs.
Peas	6 lbs.
Pepper	1 oz.
Pumpkin	2 ozs.
Radish	6 ozs.
Rhubarb	3 ozs.
Salisify	3 ozs.
Spinach	6 ozs.
Tomato	1 oz.
Turnip	3 ozs.
Kohl Rabi	3 ozs.

Miscellaneous Items for Every Garden Need

Royal Seeders



Have won for themselves first place among all kinds of grass seeders. They have demonstrated that they are the most accurate and economical machines for sowing Clover, Timothy, Alfalfa and other small seeds broadcast. They run easily, and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel, which moves correspondingly slow or fast as the machine runs over the ground. This seeder has a strong steel wheel 32 inches in diameter, with an inch and a quarter by one-quarter inch steel tire, is operated by a device that engages the wheel close to the hub. It is instantly thrown out of gear, and the amount of seed sown is quickly governed by changing a screw in the index. This seeder does not injure or bunch the seed, but evenly distributes it the full length of the hopper.

12-ft., Single Hopper for Alfalfa, Clovers, Millet, Timothy, Each	\$12.00
16-ft., Single Hopper for Alfalfa, Clovers, etc. Each	13.75
14-ft., Double Hopper for Blue Grass, Red Top, Orchard Grass, Alfalfa, Clovers, etc. Each	14.75

"Cyclone" Seed Sower

THE CYCLONE SEEDER—Sows all kinds of grain and seeds perfectly—oats, cow peas, millet, etc. Each, \$2.25, postpaid.



Dirt-Proof, Washable GARDEN GLOVES

ALL LEATHER
DURABLE
EXTRA SOFT

Easy to Wear

—for Men and Women

Easy Wear gives you everything you want in a garden glove: all-leather protection from dirt, scratches, stains, infection—yet permit almost BAREHAND FREEDOM. Their amazing softness and pliability are the result of a special processing of select lamb skins. Economical, too—outwear 6 pairs of ordinary fabric gloves, are washable and can be used the year round for gardening, housework, painting, furnace, garage, etc.

Sizes for WOMEN (small, medium, large) and MEN (small, medium, large). Price, 75 cents a pair, postpaid. (2 pr. \$1.40.)

Eezy Wear
GLOVES

Fertilizer Spreaders

Helps to produce velvety lawns. No danger of lawn burning by uneven hand application. No more guesswork. It spreads evenly. Saves fertilizer—applies lightly or heavily by quick adjustment. Very substantially constructed.

	Width Hopper	Capacity	Each
Model B	14"	15 lbs.	\$ 2.90
Junior	16"	35 lbs.	6.00
Standard	24"	65 lbs.	11.35
Special	36"	100 lbs.	18.50



Sod Spiker

There is an easy way to keep your lawn green. In nine out of ten stubborn lawns the basic fault is packed, waterproof soil. Invariably this brings weeds, moss, barrenness and other faults with it, but these cannot be corrected until the sod is made porous. Water, fertilizer and air have to reach the roots to do any good. When sod is made porous, grass roots begin to extend deeper. They no longer have to stay near the surface to breathe or to get water or food. A deep, tough surf results, which absorbs all the fertilizer and water it receives, and starves them. It needs far less attention. It chokes out weeds. The Sod Spiker is the Scientific Lawn Aerator.

Price each, \$1.75.

Dunham Lawn Rollers

As Essential As a Lawn Mower

During winter months freezing and thawing loosen soil and heave turf away from sub-soil, leaving millions of sensitive "feeder-roots" exposed to the air. In the spring when the grass should start growing these roots dry out and die. These cracks are the lodging places for weed seeds which rapidly take root and choke out the grass. A Dunham Roller will compress the soil around the roots, and force the turf back against sub-soil so the roots can absorb the water and plant food. The lawn will present a smooth, velvety surface and will offer small opportunity for weeds to develop.

No. 5. Weight filled, 265 lbs., each \$12.50
No. 7. Weight filled, 420 lbs., each 14.00

Above equipped with roller bearing.

No. 2. Weight filled, 175 lbs., each 8.00

No. 2 equipped with plain bearing.

All Rollers have adjustable scrapers.



Germaco

Hotkaps

An amazing invention—crop INSURANCE. A revolutionary device that saves farmers much in time, labor and money. Carton of 1,000, \$10.50; 5,000 at \$9.65 per 1,000. Trial package of 100 with Papier Mache Setter and Steel Tamper, \$2.40 each. Package of 250 with Papier Mache Setter and Steel Tamper, \$3.65 each. Steel Setter and Tamper, \$1.50. Papier Mache Setter, 50c each. Steel Tamper, each 25c.

New size HOTKAP Home Garden Package consists of 25 HOTKAPS complete with sturdy cardboard setter for 50c.

THE VIGORO TREE AUGER IS A GOOD INVESTMENT

When you buy a Vigoro Tree Auger you get a tool that makes simple the process of feeding trees and shrubs. It is an investment in increased growth and beauty. In addition, it is valuable for other purposes where earth or similar materials are to be bored.

The Vigoro Tree Auger is 2 inches in diameter and 40 inches long, overall. High grade auger steel is used for it, and it is properly heated to give long years of service. It is provided with a substantial hardwood handle, and the ample overall length of the tool makes it possible to bore to proper depths without getting into an uncomfortable position at any time. Each, \$3.00.

Colvin Sub-Surface Irrigator

Delivers water direct to the roots of trees, flowers, shrubs and lawns, penetrating every kind of soil with ease—the proved, complete answer to the irrigation problem. Overall

length of irrigator is 36 inches. Fits any standard hose coupling. Water outlet holes placed on side, makes it impossible for soil to enter and clog.

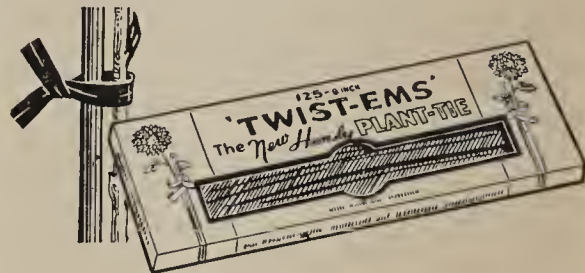
JUNIOR MODEL—Capacity, 3 gallons per minute. Each, \$2.50.

STANDARD MODEL—Capacity, 4 gallons per minute. Each, \$3.25.

PROFESSIONAL MODEL—Capacity, 10 gallons per minute. Each, \$4.25.



'Twist-Ems'



THE NEW HANDY PLANT-TIE

'Twist-ems' are dark green strong tapes with wire reinforcing that make perfect plant ties. Quick, Permanent, Attractive, Convenient. For Nurseries, Estates, and Amateur Gardeners. For Plants, Shrubs, Vines, and arranging of Flowers.

Box of 125, 8-inch size, 25c; box of 250, 4-inch size, 25c.

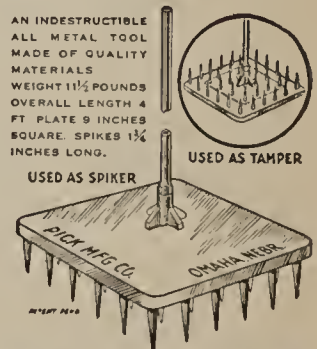
Garden Club Flower Shears



Wonderful help for cutting and gathering flowers. Snips and holds in one motion. Unique device grips stem as it is cut. You avoid thorns and scratches. Handy for picking flowers that are hard to reach. Price, 50c; 2 for 95c.

Spike-Tamp

The most wonderful lawn tool ever produced. Amazing results follow its use. SPIKE-TAMP soon pays for itself in saving of seed, fertilizer, plant food, and water. This two-in-one tool is guaranteed a lifetime against breakage. SPIKE-TAMP is useful from early spring till late fall. Should always be used when seeding or when spreading fertilizer or plant food. Besides these uses, spiking aerates the soil, improves the drainage, and cultivates the roots. Grass seed planted should always be tamped. SPIKE-TAMP is very useful in the garden to pulverize the soil. Price each, \$4.50.



SPIKE-TAMP
"THE LAWN MAKER'S FRIEND"

Use Fertilizer for Bigger and Better Crops

Swift's Red Steer Fertilizers Are

Physiologically Neutral and Non-Acid Forming
In tests and in practical use this kind of fertilizer gives best results.

Swift's Fertilizers are Double Mixed and thoroughly blended.

We can quote attractive prices on one bag to a carload. The following are carried in stock:

	Nitrogen	Phosphate	Potash
RED STEER.....	4%	8%	6%
RED STEER.....	4%	8%	10%
RED STEER.....	4%	12%	4%
SUPER			

PHOSPHATE..... 20%

Prices gladly quoted on request.

SULPHATE OF AMMONIA—Used for its nitrogen. Very desirable for all plants in which leaf development or rapid growth is desired. Lb., 5c; 25 lbs., 80c; 100 lbs., \$2.75.

ALUMINUM SULPHATE—For creating acid condition in the soil. Lb., 10c; 25 lbs., \$1.25.

AMMO-PHOS—16½% Nitrogen, 20% Phosphate. Lb., 5c; 25 lbs., \$1.00.

NITRATE OF SODA—A fertilizer very quick in action and hastens the maturing of crops. Lb., 5c; 25 lbs., \$1.00; 100 lbs., \$3.00.

BLOOD MEAL—Lb., 10c; 25 lbs., \$1.25; 100 lbs., \$4.50.

MURIATE OF POTASH—Used for its ability to increase fiber development in plants, to hasten maturity and to increase the size and weight of all root crops. Lb., 5c; 25 lbs., 90c; 100 lbs., \$3.25.

RAW BONE MEAL—An excellent dressing for garden crops and flowers. Supplies phosphates. Lb., 5c; 25 lbs., 90c; 100 lbs., \$3.00.

Prices subject to change without notice. Write for prices on larger lots.

Wire Hanging Baskets

For porch, sun parlor, or anywhere else inside or out. Just the basket for ferns, trailing vines. Attractively finished in green enamel.

No. 648—8 inches in diameter. 25c each.

HANGING BASKET HOOK—10-inch projection. 15c each.

SHEET MOSS dyed green for lining baskets. \$1.00 per pound. Requires about one-half pound to a basket.

Flower Pots and Saucers

All sizes, 2-inch up to 12-inch
Ask for prices.

Cypress Plant Tubs



Cypress tubs are the most durable wood when exposed to dampness and heat. They are hooped with electric welded wire hoops over which wire staples are driven to prevent slipping. Painted green.

	Inches Top Diameter	Inches Bottom Diameter	Inches Deep
No. 2	12	9	11
No. 3	14	11	13
No. 4	16	13	13
Price No. 2	\$1.00		
Price No. 3	1.35		
Price No. 4	1.50		

Complete stock of Standard and Azalea Red Pots from 2-inch to 5-inch. White Pots from 6-inch to 12-inch.

Prices quoted on request.

Bamboo Plant Stakes

Dyed Green
For staking Mums, Dahlias, etc.

Length	Diam.	Per Doz.	Per 100	Per 1,000
3 ft.	¼ to ½ in.	12c	\$.90	\$6.50
4 ft.	¼ to ½ in.	15c	.95	7.50
5 ft.	¼ to ½ in.	20c	1.10	9.00

Sheep Manure

Is a highly concentrated weedless manure uniformly pulverized. It is safe and highly dependable for home lawns and gardens. For lawns, use 6 to 10 lbs. to 100 square yards and rake into surface soil. For gardens mix a handful under each new plant, more for shrubs. For old plants, use 12 lbs. per 100 square feet.

Price: 25 lbs., 70c; 50 lbs., \$1.25; 100 lbs., \$2.10; 50 0lbs. at \$2.00 per 100 lbs., f.o.b. cars, Tulsa.

ADCO

(Registered Trade Mark)

Mixed with leaves, cuttings, vines, weeds, straw, cornstalks, etc., ADCO converts them into rich, real manure, sanitary, odorless, and free from weeds. This artificial manure is real manure, not a mere compost. It is fully equal to the farmyard product in fertilizing power, but free from foul odor, flies, etc. The process is perfectly simple and not at all laborious.

Home Gardeners, by using their refuse, can now have plenty of manure at low cost and little trouble.

Farmers, by utilizing straw, corn stalks, etc., can secure their manure without the expense and labor maintaining live-stock.

Vegetable Growers can turn back into their soil as rich manure the stalks, cuttings, vines, leaves, etc., heretofore wasted.

Florist, Nurserymen and Fruit Growers can convert leaves, etc., into valuable fertilizer for their plants, trees and bulbs. 7½-lb. carton, 90c; 25-lb. bag, \$2.25.

A Proven Way to LUXURIOUS LAWNS ... Use GRO-LUX

You can assure yourself a luxurious lawn with no more effort than sprinkling your yard. Gro-Lux is applied quickly, easily, simply by sprinkling this plant food through ordinary garden hose.

Gro-Lux supplies all the elements needed for plant growth. Nitrogen, phosphoric acid, potash, calcium, iron, zinc, sulphur, manganese, copper, carbon, sodium and boron in balanced proportion.

Apply Gro-Lux through garden hose, using Gro-Lux Liquefier attached to hose at nozzle. Price: 5-lb. box Gro-Lux, enough for 1,250 square feet, \$2.50; Gro-Lux Liquefier, \$2.00 each.

STIM-U-PLANT Plant Food in Tablet Form



Feed your house plants, roses, flowers, shrubbery, vegetables the modern way, with Stim-U-Plant. Absolutely reliable, economical, clean and odorless. Prices: 10 tablets, 10c; 30 tablets, 25c; 100 tablets, 75c; 1,000 tablets, \$3.50.

Peat Moss in the Garden

Soils which are not naturally good, because of too much sand or gravel, which lack life and vigor, or are stiff, hard clay, difficult to work, cold and uncongenial, can readily be corrected by the addition of generous quantities of granulated peat moss.

Peat moss is harmless. It will not burn or injure the plants, regardless of the amount used; it is also odorless, pleasant to work with and when used as a mulch, adds to the neatness and attractiveness of the garden.

For lawns, for preparing the soil for garden beds, seed flats, greenhouse benches, for rooting cuttings, as a summer or winter mulch peat moss is a ready and efficient aid, truly. Nature's gift to gardeners. Per bale of 6 cubic ft., \$2.25; large bale, 12 cubic ft., \$3.95 each.

Free Booklet Mailed Upon Request.

Perfection Brand Supplies

Paper Flower Pots

Every grower of plants, large or small, can cut his growing costs by using Paper Flower Pots.

Size	Per 100	Per 1,000
3 in.	\$.90	\$ 8.00
3½ in.	1.15	10.00
4 in.	1.50	13.00
5 in.	2.00	19.00
6 in.	2.80	26.00

Earth Bands

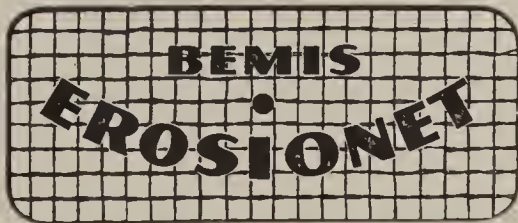
Crops whose value depends on how quickly they can be gotten to market are sure to be two or three weeks ahead when plants are started under glass. The use of Earth Bands makes it much easier to handle and transplant to the open field. Earth Bands also act as cut-worm guards for the tender plants when they are in the open field.

Size	Per 100	Per 1,000
3 x 3 x 3	50c	\$ 3.75
4 x 4 x 3	65c	5.00

Plant Labels

Made From Port Orford Cedar
For trees, pots and gardens.

	Per 100	Per 1,000
Tree Labels, Copper Wired, 3½ in.	35c	\$2.25
Pot Labels, 11/16 x 4 in.	30c	1.90
Pot Labels, 11/16 x 5 in.	35c	2.25
Garden Labels, 1 in. x 10 in.	60c	5.00



How to Grow a Hardy Lawn with One Seeding

Use BEMIS EROSIONET for new lawns, weak lawns and stubborn terraces.

Bemis Erosionet is a strong, economical open-mesh fabric made of tightly twisted, paper twine. When placed over any seeded surface, its ¼-inch square mesh forms millions of tiny dams which catch and hold the seed and sod firmly in place. Thus, damaging "wash-outs" from heavy rains are effectively checked without cutting off the sunlight.

Erosionet also catches and holds moisture. It helps overcome seed losses and lawn disappointments from poor germination. Erosionet never presents an unsightly appearance, clovers and grasses soon rendering it almost invisible. Bemis Erosionet is rot-resisting and can easily be removed when the grass becomes 2½ inches high. If you are planning a new lawn, or having difficulty with your present lawn or terrace, try Bemis Erosionet. This comes in 45-inch widths and price is 10c per yard; 25 yards at 9c per yard.

Insecticides and Fungicides

Kill the Peach Tree Borer by Using Santochlor

The borer feeds actively in the fall, spring and summer months, and lies dormant in the winter. It attacks the soft inner bark usually just beneath the ground and sometimes along the larger roots. The presence of these pests is indicated by masses of gum mixed with brown frass or "sawdust" exuding from the injured trunk. One treatment per year, preferably in the fall, will usually be sufficient protection. Santochlor penetrates the burrows of the borers. It is fatal to insects but harmless to man or beast unless taken internally. 1-lb. pkg., 40c; 5 lb., \$1.00; 10 lb., \$1.90; 25 lb., \$4.25.

Bee Supplies

LEWIS BEEWARE
DADANT FOUNDATION

The Standard of the Bee-Keeping World. We carry a complete line in stock and will be glad to mail catalogue on request.



"DOGZOFF"

Protects Your Evergreens, Trees,
Shrubs and Plants from Dogs,
Cats, Moles and Rabbits

There is nothing offensive to humans about DOGZOFF. Sprayed directly underneath evergreens, DOGZOFF repels dogs without any harm to the dogs, or the trees and shrubs themselves. 3 oz. pkg., 60c. Postpaid, 75c.

It works surely and
quickly



Eliminates
moles in two
or three days.

It is easy to use and there is no messy disposal job. It is non-poisonous to birds and pets.

To use Mologen, push small holes in the ridges made by the moles—insert a small quantity of Mologen. The moles are attracted by this chemically treated mole eliminator—they will consume it and will vanish.

Mologen is prepared in powder form and will not injure the grass or soil—it is odorless and emits no gases.

PRICES

1/2 pound.....	\$.50
1 1/2 pounds.....	1.25
5 pounds.....	4.00



A Product of the
OGEN Laboratories
Experimental Gardens

Tree Wound Paint

Antiseptic Tree Wound Paint will stop bleeding and prevent infection of pruned or damaged portions of tree. Very adherent and lasting. Half pint can, 40c each; Pint cans, 70c each; postage extra.

Trowbridge Grafting Wax

Is the best known Grafting Wax on the market. It is used for grafting, budding, top working, etc., of all kinds of fruit, ornamental trees, shrubs and vines.

1 lb. pkg.....	\$.50
1/2 lb. pkg.....	.30

"43" for the Tree (Plastic)

(A Scientific Tree Surgery Compound)
1-lb. pkg., 25c; 2-lb. pkg., 45c;
10-lb. pkg., \$1.50.

A cut or broken limb soon becomes diseased and the tree quickly dies. But let "43" work for you. Simply remove any decayed wood and fill the wound with this antiseptic, healing preparation. Anyone can quickly and easily doctor their trees.

"43" for the tree is a black plastic material composed of about 18 ingredients recognized as an aid to expert tree surgery work. It makes easy the natural growth of the tree as it conforms rather than binds the limb or trunk. "43" forms a waterproof dressing over the wound and checks disease.

Will not sag or run but is light in weight and remains firmly in place. Can be applied all months of the year.

Verdol

SUMMER SPRAY OIL

Oil sprays are being used to an increasing extent for the control of certain insects on evergreens. The pests that are becoming most troublesome in evergreen plantings, are red spider and pine leaf scale. Verdol has proved highly effective at 1% concentration for red spider control. At this strength it may be used at any time during the summer. Half pint jars, 20c each; pints, 35c each. Ask for quantity prices.

Dendrol

Dendrol Dormant Spray is a carefully refined, highly specialized soluble (miscible) oil for the specific purpose of killing insects attacking trees and shrubs. Dendrol is easy to use. It pours readily in any weather, mixes easily with any water, disperses freely to form a stable, milk white emulsion of uniform density, and has high covering power. Especially recommended as a dormant spray for San Jose and Oyster Shells scale. 1 gallon cans, \$1.15. Ask for quantity prices.

Superla Summer Spray Oil

Superla is a superior spray material. It is 95% oil, safe to use, powerful insecticide. Has high killing power on both worms and eggs. It gives almost perfect coverage and resists absorption by plant tissues. Remains on the surface longer to protect the fruit, does not damage the trees, and reduces color spotting to almost zero.

Circular mailed on request.

Dog Skat



Keep dogs, cats and other animals away from trees, evergreens, roses, shrubbery, etc. Tube releases vapor offensive to animals, but not noticeable to humans. Large tube, 30c each; small tube, 15c.

Lethane 440

General contact spray for aphids, red spider, thrips, scale insects, lacebug, midge, mealy bugs, leaf hoppers, and white fly. 2-oz. pkg., 35c; 6-oz. pkg., \$1.00; quart, \$2.75.

ROHM & HAAS CO.'S PRODUCTS

Cuprocide-Standard Red Cuprous Oxide for Seed Protection

CUPROCIDE 54Y—Seedling protection. Control of damping-off at ground surface level.

Spray or sprinkle seed bed with Cuprocide 54Y immediately after planting Cuprocide-treated seed and once more before seedlings appear. Use 1/2 ounce per gallon. Apply 1 pint of mixture per square foot.

TOMATOES—For control of blight and leaf-spot. Tests over several seasons have shown that a cuprous oxide spray does not cause increased transpiration or blossom drop to as great an extent as does Bordeaux Mixture. Thus the vigor of the plants and the set of fruit is not affected so adversely by Cuprocide 54Y as by the commonly used spray material.

POTATOES—For control of blight.

CUCUMBERS, MELONS, ETC.—For control of wilt and mildew.

ANNUAL AND PERENNIAL FLOWER PLANTS—For control of mildew and leaf spots on such plants as Phlox, Stocks, etc., CUPROCIDE 54Y leaves little visible residue. This and its safety make it exceptionally desirable on these plants.

ROSES—For control of mildew and black spot. The most effective remedy that we have ever handled. Used by the Park Board on the Rose Garden in Woodward Park.

Use 4 ounces CUPROCIDE 54Y in 100 gallons of water containing 1 pint emulsified cotton seed oil (1/2 teaspoonful CUPROCIDE 54Y and 1 teaspoonful cottonseed oil to each gallon of water.) Apply once a week. Start spraying as soon as leaves appear, as Black Spot is easier to prevent than control.

PRICE OF CUPROCIDE SEED TREATMENT
4 oz. pkg..... \$.35
1 lb. pkg..... .90
5 lb. pkg..... 4.00

CURCIDE 54Y—3 lb. pkg., 37c per lb.; case lots of 16 3-lb. pkgs., 32c per lb.

Self Emulsifying Cotton Seed Oil

For use with Cuprocide 54Y—Pint, 45c; quart, 80c; 1/2 gallon, \$1.35; 1 gallon, \$2.30.

Grow Better ROSES



TRI-GEN

All-purpose spray

Roses that are permitted to become afflicted with insects and fungus diseases will lose their vitality and will not yield beautiful blooms.

If your roses have the scientific protection of TRI-GEN, neither insects nor the dreaded Black Spot or Mildew will harm or defoliate them.

TRI-GEN not only protects roses against all fungus diseases and insect pests, but it stimulates vigorous plant growth and assures healthy green foliage and luxuriant blooms.

... it is the most revolutionary discovery ever made in the history of rose culture. It is the most highly recommended product of its kind.

TRI-GEN PROTECTION IS COMPLETE. No other spray is required. Therefore, it has been found to be the most economical spray for roses. Moreover, it is a great labor saver.

PRICES

A. Small Kit (makes 16 quarts) ..	\$ 1.50
B. Medium Kit (makes 64 quarts) ..	4.00
C. Large Kit (makes 32 gallons) ..	6.00
D. Estate Kit (makes 128 gallons) ..	20.00

A Product of OGEN Laboratories
and Experimental Gardens

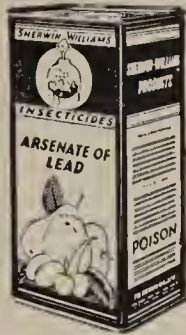
Insecticides and Fungicides—Continued



SHERWIN-WILLIAMS DRY LIME-SULFUR—“The Original Dry Lime-Sulfur.” A superior lime sulfur spray for the control of San Jose Scale, Peach Leaf Curl, Peach Blight, Peach Twig-Borer, Apple and Pear Scab and Apple Powdery Mildew; also against Red Spiders, Rust Mites and Citricola Scale of citrus fruits.

SHERWIN-WILLIAMS PRUNING COMPOUND—An effective durable tree wound dressing for use on fruit and shade trees. Does not injure the bark and aids in preventing the entrance of fungous and bacterial diseases.

SHERWIN-WILLIAMS ARSENATE OF LEAD—Well known for its superior adhesive and spreading qualities. A standard remedy for chewing insects of orchards and small fruits, vegetables and tobacco. Kills insects quickly without injury to fruit or foliage.



SHERWIN-WILLIAMS ROSE-AID—For dusting roses and all kinds of flowers for control of Mildew, Black Spot and other diseases and leaf eating insects.



SHERWIN-WILLIAMS PARIS GREEN—An old reliable brand which results in quick death to the Potato “Bug,” Sugar Beet Web Worm, Tobacco Worm, Cut Worm, Army Worm and Grasshopper.

Acme Spray Soap

A (fish oil) soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. Also used extensively with cylinder oils in making oil emulsions to reduce the surface tension.

Prices: 1 lb., 30c; 5 lbs., \$1.25, postage extra.

Spray peaches, plums and nectarines with dry lime sulphur in December and February. This will prevent curly-leaf and other fungus.



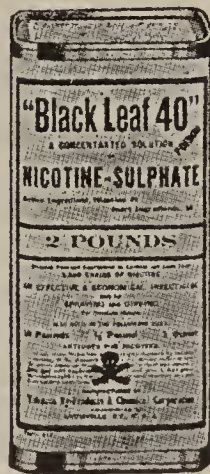
SHERWIN-WILLIAMS FUNGI-BORDO—A quality product superior to home-made Bordeaux Mixture. Properly balanced in copper sulphate and lime content and having superior suspension, adhesive and spreading qualities. Recommended against Blotch, Bitter Rot and Anthracnose of Apples, Apricot Brown Rot, Cherry Leaf Spot, Black Rot of Grape, Strawberry Leaf Spot, Celery Blight, Tomato Leaf Spot, Blight and Leaf Hoppers of Potatoes.



HAMMOND'S SLUG SHOT—Slug Shot, used from ocean to ocean. A light composite, fine powder, easily distributed either by duster, bellows or in water by spraying. Thoroughly reliable in killing currant worms, chicken lice, slugs, sow bugs, bugs on cantaloupes, cucumbers, etc., and it is strongly impregnated with fungicides. Packed in cartons of 1 lb. each with perforated top to dust out. 25c each; 5-lb. bag, 85c; 25-lb. bag, \$2.75.

TOBACCO DUST—For green and black aphids, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. For insects on plants, apply with powder-duster or bellows; for worms or grubs in the soil, apply liberally to the surface and rake or strew thickly in drills before planting. Price, lb., 10c; 10 lbs., 60c; 25 lbs., \$1.25.

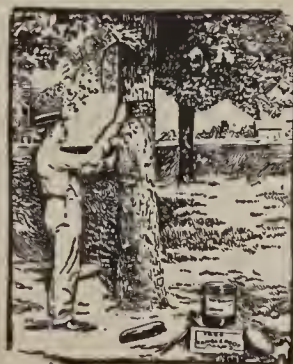
BLACK LEAF 40—The insecticide so highly recommended by Experimental Stations. Destroys aphids (plant lice), thrips, leaf-hoppers on all trees, bush and vine fruits, vegetable, field crops, flowers and shrubs, without injury to foliage. You cannot go wrong by ordering Black Leaf 40 for sucking insects. Price, oz. (makes six gallons spray), 35c; 5-oz. pkg., \$1.00; 2 lbs., \$3.25.



CYANOGLAS DUST—Calcium Cyanide is now well established with rapidly increasing demand. It is the most remarkable insecticide developed in many years. It controls greenhouse insects of all kinds; ants, chinch bugs, fleas, aphids, bed bugs and many others. Rats, moles, woodchucks, prairie dogs, ground squirrels, etc. Cyanogas A Dust is a powder and when pumped in a rat hole releases a deadly gas. The dust particles travel underground, releasing the gas as they go and the rat has no chance as the gas reaches wherever he runs. Price: ½-lb. pkg., 45c; 1-lb. pkg., 75c; 5 lb. pkg. for \$3.00.



TREE TANGLEFOOT—A perfect safeguard for trees and vineyards against Gypsy, Brown Tail, and Tussock Moth Caterpillars, Canker Worms, Cut Worms and Ants, and other creeping insects. It will remain exposed to the weather. One pound makes 12 to 15 lineal feet of band. On matured fruit trees and all shade trees is applied directly to tree trunks; on young fruit trees over strips of Manila Paper. 5-oz. pkg., 25c; 1-lb. pkg., 65c 5-lb. pkg., \$3.00 each.



Garden Volck Nicotine-Oil Spray

Garden VOLCK is a combination spray containing the highest quality summer oil combined with an active form of nicotine, plus soap as a wetting agent, making it a complete contact insect spray. Recommended to control aphids, mealybugs, red spider, white fly, rust mite, certain scale insects and certain other garden pests. 3½ oz. pkg., 35c each; 1 pint, \$1.00 each.

Nursery Volck Summer Spray Oil

Nursery VOLCK is a scientifically selected insecticidal foliage oil emulsion that can be used on tender plants all through the season. Recommended as a contact spray to control insects, mealy bugs, red spiders, rust mites, white flies and many other insects. Nursery VOLCK is compatible with lead arsenate, pyrethrum sprays, rotenone sprays, nicotine sprays and copper fungicides. Nursery VOLCK also imparts a glossy finish to foliage which adds to the natural beauty of the plant. ½ pint can, 35c each; 1 quart, 75c each; gallon, \$2.00 each.

Greenhouse Volck Special Oil Spray

A special VOLCK spray containing a light phytonomic oil for use on plants under lath or glass considered too tender for the usual contact insecticide. Recommended for use on ferns, tender plants, and other plants with sensitive foliage. 1 quart cans, 75c each; gallon, \$2.00 each.

KAYSO—Prepared Casein, a spreader and adhesive and for use in connection with Lime Sulphur, Bordeaux and Arsenate of Lead. Simplifies spraying, makes possible the perfect coating of every part of the tree and leaves. Remember that Kayso is not only a spreader and binder; it makes the poison stick and resistant to washing effect of rains; also saves material. 2-lb. pkg. is sufficient for 100 gallons of spray. 2-lb. pkg., 45c.

Rat Nip

KILLS RATS EVERY TIME

Rat Nip has no parallel for successfully destroying rats. It has an attraction for rats that they cannot resist. The odor and composition of Rat Nip is such that rats will scent it far away and when found they eat it ravenously. 2½-oz. pkg., 35c.

KRO—Kills Rats Only

Ready mixed—contains most attractive rat bait known, mixed with red squill powder, oven-dried under the special “Connable Process.” 6-oz. pkg., 35c; 24-oz. pkg., \$1.00, postpaid.

B-K—A Disinfectant, Deodorant, Sterilizer

B-K is ten times more effective in destruction of germs and bacteria than undiluted carbolic acid. Contains no poison, acid, oil nor anything harmful to people, animals or food products. B-K is as clear and clean as water. It destroys the germs that cause odors and decay—helps to keep utensils and products clean and sweet. B-K is cheap to use, is concentrated—you add water to use. Costs ½c to 2c per gallon as used. Prevents poultry diseases, such as Roup, Canker and White Diarrhea. 4 oz., 30c; pint, 50c; quart, 90c; gallon, \$2.00; 5 gallons, \$8.50.

B-K POWDER—9½-oz. pkg. makes 1 gallon, 75c each; 28 oz. makes 3 gallons, \$1.50 each.

Insecticides and Fungicides—Continued



Hammond's Grape and Rose Dust

Prevents mildew and black spot. This ideal dusting fungicide is easy and safe to use. Green in color—not unsightly. 1 lb. pkg., 35c; 5 lb. pkg., \$1.25.

Red Arrow

Is a combination of a highly concentrated extract obtained from pyrethrum, derris and soap. RED ARROW kills all garden pests, plant lice, red spider, mealy bugs, sod web worms, etc. 1-oz. bottle, 35c; pint, \$1.00; gallon, \$10.00.

Poisoned Wheat

Sure death to rats, mice, gophers and moles. Put a little of the wheat in a box, pan or saucer in a convenient place where the rats, mice, etc., can find it; they will do the rest.

2-oz. pkg., 15c; 5-oz. pkg., 30c; 15-oz. pkg., 60c.

Pomo-Green (With Noctine)



Controls diseases, leaf-eating insects and Aphis, Rose Aphis, Nasturtium and Sweet Pea Aphis, Japanese Beetle, Leaf Roller, Web Worm, Tent Caterpillar, Flea Beetle, White Fly, Rose Midge, Red Spider, Mealy Bug, Rose Black Spot, Rose Mildew, Rose Canker, Dahlia Mildew, Zinnia Mildew, Hollyhock Rust, Snapdragon Rust, and many others.

One pound cans, 75c each; five pound can, \$3.00 each.

Hammond's Weed Killer

Destroys weeds, poison ivy and all vegetation. Highly concentrated, stands dilution with 40 parts of water.

Paths, roadways, borders, gutters, etc., can be kept free from wild grass, vines, etc., by the use of Hammond's Weed Killer. It can be used to clean up areas which have become overgrown. A few rains wash the ground clean and it is then ready for cultivation. Quart cans, 50c each; 1 gallon cans, \$1.25 each.

Auxilin

The Miracle Root Grower
NOW AVAILABLE
Real Roots From
Cuttings
Faster—Surer
Cheaper



1/6-oz., 50c (will treat up to 600 cuttings);
1/2-oz., \$1.00 (will treat up to 1,800 cuttings);
3 1/2 oz., \$6.00 (will treat up to 12,000 cuttings);
8 oz., \$12 (will treat up to 30,000 cuttings).

Difficult cuttings from plants, shrubs, trees root easily, quickly. See photograph of American Holly rooted in 6 weeks. You get more, larger and healthier roots. Less disease. You need no special skill or equipment. Complete with graduated phial and full directions. Add water only.

Grow Flowers and Vegetables Without Soil— with Chemi-Grow

Plants Grow the Year Round

Chemical (Soil-less) growing is the science of growing flowers and vegetables without the use of soil. The theory of Chemical Growing is simplicity itself. Since all vegetation derives its growth, flavor, healthfulness, and color from the mineral elements in the soil, and as the soil is used only as a support, and often contains elements which retard growth instead of hastening it, why use soil?

In Chemical Growing the yields of most crops are many times larger than where grown in soil; and, under proper conditions, temperature, light, etc., they will grow many times faster.

Circular on request.

Price per pkg., enough for 6 gallons, 25c; 15 gallons, 50c.

Carbon Disulphide

Used for Controlling Weevil in Peas, Beans, Grains, Etc.

Method of Treating—Put seeds to be treated in an air-tight container, as a water barrel, strong goods box or metal container. For treating small lots, 2 oz. of Carbon Disulphide per bushel is sufficient. Full directions on package.

Caution—Keep away from open fires—such as lanterns, matches, etc.

Price: 1-lb. Bottle, 30c

Auxan

Plant Hormone Powder

Roots cuttings quickly, vigorously and economically. Effective to use with minimum risk of injury to plants. Circular on request.

Trial size package, 50c each. Will treat around 1,500 plants.

DOUBLE YOUR MONEY BACK!



If you don't say Ever Green is the best non-poisonous general garden insecticide you ever bought.

35c
EVER GREEN
GARDEN SPRAY

MAILABLE — Being non-poisonous EVER GREEN can be sent through the mails.

PRICES:

6 oz. Bottle	1.00
1 Pint Bottle.....	2.25
1 Gallon Tin	12.00

Prices Postpaid.

We will gladly quote you prices
on Strawberry Boxes
and Crates.

Vitamin B-1 For Your Garden

Vitamin B-1 Pure Crystalline Powder Produces
Amazing Reinvigorated Root Growth

During the past few leaders in nutritional science have quite firmly convinced the majority of us that vitamins are something that we just can't get along without. But while we may have now become accustomed to taking our vitamins in tablet form, it comes as something of a surprise to know that our plants would also enjoy a more healthy and reinvigorated life if they, too, were given a little of our own "medicine" every now and then—though in somewhat different form.

Nevertheless, amateur and professional horticulturists are achieving amazing results in plant growth and survival through experimental treatment with pure crystalline Vitamin B-1. Vitamin B-1 is not a fertilizer, nor is it any other form of plant food. Rather, it must be classified as a root reinvigorator which enables the plant to gain the greatest possible benefit from the soil in which it is planted.

Circular on request.

\$1.00 pkg. makes 2,000 gallons of solution.
50c pkg. makes 800 gallons of solution.

GET IN PLENTY OF INSECT AMMUNITION... YOU WILL NEED IT
EARLY AND OFTEN.

Two Great Pest Controls

1. ANTROL—For sweet-eating ants—the kind that infest the house and are frequently seen on plants and trees. This is a complete system adapted to any size house, composed of small glass containers and special Antrol syrup. The containers are partially filled with syrup and then placed about the outside edges of the house. Ants smell the mildly poisonous syrup, eat it and then transmit it to their queen. Soon the entire ant nest is destroyed.



ANTROL SYRUP for refilling, 4-oz. bottle, 35c each.

ANTROL SYRUP, pint bottles, 85c each.

NOTE—Enough containers and syrup should be purchased to place one container every 15 feet around the house and along ant "trails" in the garden.

2. SNAROL—For snails, cutworms, slugs, grasshoppers, sow bugs, earwigs and other garden pests.

This is a ready prepared meal that you simply broadcast about the garden on the ground under the vegetables. The pests eat this meal and are quickly destroyed. Rains and sprinkling do not lessen the efficiency of Snarol.



Also SNAROL is non-injurious to vegetation.

Indorsed by gardeners and nurserymen everywhere for best results.

Prices: 1 1/2-lb. pkg., 35c; 4-lb. pkg., 85c.

Two Types of Antrol Sets

REGULAR consists of 4 water and dirt-proof glass containers and one 4-ounce bottle of Antrol Syrup, enough for two complete fillings. Price: 75c per set.

READY-FILLED consists of 4 special glass "feeders" filled with regular Antrol Syrup. Price: 40c per set.

Any number of Antrol Ready-Filled Feeders may be purchased separately at 15c each.

We Specialize in Seed Disinfection



New Improved Ceresan

A low cost disinfectant dust for Wheat, Oats and Barley. Controls certain seed-borne diseases. Is easily applied. 4-oz. can, 30c; 1-lb. pkg., 75c; 5-lb. pkg., \$3.25.

2% Ceresan

A dust disinfectant for Cotton, Millet, Peas and Sorghum. 1-lb. pkg., 70c; 5-lb. pkg., \$3.00; 25-lb. pkg., \$13.25.

Booklets on Seed Disinfectant mailed on request.

New Improved Semesan, Jr.

For Field and Sweet Seed Corn

The organic mercury dust disinfectant for the control of Diplodia, Gibberella and Basiporium root rots; also for the prevention of seed rotting of early planted corn. Is quickly and easily applied, is harmless to the seed and does not appreciably slow up the rate of planter drop or prevent accurate planting. Prices—2 oz. pkt., 15c; 4 oz., 30c; 1 lb., 75c; 5 lbs., \$3.00.

Semesan

For Vegetable and Flower Seeds and Bulbs

The chlorophenol mercury disinfectant for combating many diseases carried on seeds, bulbs, corms, roots, or tubers of flower, vegetable and nursery crops. Reduces seed rotting and damping-off of seedlings. Applied either as a liquid or as a dust. Used as a liquid treatment for controlling "Brown Patch" of lawn and golf green grasses. Prices: 1/3 oz. pkt., 10c; 2 oz., 35c; 1 lb., \$2.25.

Semesan Bel

For White Seed Potatoes

The organic mercury dip disinfectant for the control of scab and Rhizoctonia carried on seed white potatoes. Quick, easy dip treatment that eliminates labor and loss of time required by 1 1/2 or 2-hour soak treatments. One pound treats from 60 to 80 bushels of seed potatoes at the cost of 1 1/2 to 3 cents per bushel. Prices: Pkg., 25c; 4 oz., 50c; 1 lb., \$1.50; 5 lbs., \$6.75.

Garden Implements, Sprayers and Dusters

Hudson Garden Plows

The No. 446 Plow is a sturdy, well built tool at a moderate price. Tool equipment consists of Cloverleaf Sweep for surface cultivation, Double Pointed Shovel for deep cultivating, trenching, etc., and Combination 5-tooth Cultivator and Scuffle Hoe. Handles are seasoned hardwood, reinforced at tips to prevent splitting. Attach directly to wheel axle, bushing at this point permitting handles to be drawn tight without



SOMETHING TO REMEMBER WHEN YOU BUY A SPRAYER—
Can you get extra parts on short notice? We carry a complete line of parts for the Hudson Sprayer.

binding wheel. Tool standard is adjustable for pitch of tool and height of handle. Wheel 24 inches with 1 1/4-inch tire. No. 446 Plow, price, each \$3.00.

Hudson Plow Attachments

For Any Standard Make of Garden Plow

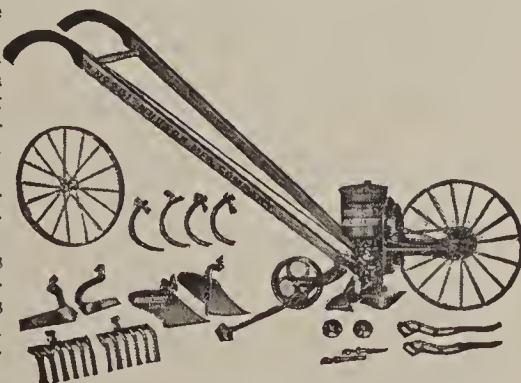
G230	Landslide Plow	40c each
G231	Clover Leaf Sweep	35c each
G232	Double Pointed Shovel	30c each
G236	Combination Hoe and Cultivator	65c each
G245	5-Tooth Cultivator Attachment	90c each

Hudson Seeder and Cultivator

As a seeder, this machine opens furrow, drops seed, closes furrow, packs earth and marks next row—all in one operation. By removing seeding parts, machine becomes double or single wheel cultivator, rake or plow.

Very accurate. Seed regulator entirely of brass, die-cut instead of cast or molded. This important feature makes the Hudson Seeder outstanding in operation and results obtained. Sows any seed from beans down to smallest garden variety.

Has brush force feed, guaranteed not to injure most delicate seed. Adjustable to sow in continuous rows or in hills from 4 to 24 inches apart. Seed flow is visible at all times. Handles are plow-handle type, adjustable to suit operator. Has 16-inch wheel, malleable iron frame. Hoes, shovels and plows are high-grade steel. Price, \$15.50 each.



2 1/2 GALLON HUDSON JUNIOR SPRAYER—OPEN TOP

The Hudson Junior is a high-pressure sprayer for whitewash, water paints, insecticides, etc. Tank is riveted and soldered at all seams. Handle and top are malleable. Equipped with high-pressure spray hose, brass extension, automatic shut-off and angle nozzle. Various nozzle discs are furnished for various kinds of work.

Price, brass tank, \$6.50; galvanized tank, \$4.50.

The New Open Top Perfection Sprayer



Tanks: 7 1/2 inches diameter, 21 inches high; capacity full 4 gallons. Made from prime galvanized or copper sheets. Copper is recommended for Copper Sulphate, Blue Vitrol and other corrosive solutions. Top seam electric welded, side and bottom seams riveted, all heavily soldered. Tested to 100 pounds pressure.

Pump: 1 3/4 x 1 1/2 inches; seamless brass tubing. AIR-PAK plunger. Cylinder screws into top cap, easily removed. Perfection air valve, all brass. Malleable "D" handle. Entire pump is securely locked for operation by means of Hudson Eccentric-Type lock. Quickly and easily released. Impossible to remove pump before pressure is exhausted.

Discharge Equipment: 27 inches 3/8-inch high pressure spray hose. All brass perfection shut-off, easily operated under any pressure. Two-foot brass extension with 1/4-inch tapered thread. All brass nozzle adjustable for any position. Adapted for any spray from fog to solid stream.

No. 210G Perfection Open Top. Galvanized tank. Each, \$6.50.

No. 210B Perfection Open Top. Copper tank. Each, \$9.00.

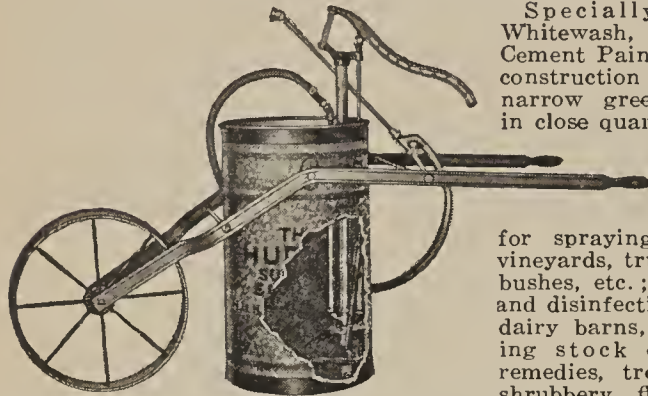
Hudson Spray Hose

Is a specially moulded hose built for handling a continuous working pressure of 250 pounds. Inner lining is specially compounded to withstand action of spray chemicals. Per foot, 15c; 10 ft. for \$1.25; 25 ft. for \$2.50.

Garden Implements, Sprayers and Dusters (continued)

It is necessary to be prepared to fight any and all kinds of insects, blight, fungus growths, blotch, bugs, and other destructive pests. This may be accomplished by possessing a sprayer capable of performing the work you find it necessary to do. We sell many dozen of Standard spray pumps each season, and the demand for Compressed Air Sprayers is increasing each season.

No. 36 S. Hudson Sunshine Sprayer



Specially recommended for Whitewash, Cold Water and Cement Paints. Short, compact construction permits its use in narrow greenhouse rows and in close quarters. Also adapted

for spraying small orchards, vineyards, truck gardens, berry bushes, etc.; for whitewashing and disinfecting poultry houses, dairy barns, hog pens, spraying stock dips and poultry remedies, treating ornamental shrubbery, flowers and lawns.

Its high pressure and easy portability adapt it for work of all kinds. Its sturdy construction enables it to be used on hillsides and uneven ground without danger of tipping.

Specifications

Pump. 126SA Moro, lever operated, easily removed for cleaning. Bronze ball valves accessible without dismantling. Fitted with non-clogging tubular brass screen which provides a strainer area 15 times greater than usual types. Special dasher agitator cleans screen thoroughly at each stroke of pump, permitting use of solution 25 to 33 1/3 per cent more concentrated.

Tank. Heavily galvanized sheet steel, capacity 12 1/2 gallons. Reinforced top edge.

Frame. Heavy channel steel with steel cross braces. Handles have shaped grips.

Wheel. 16 inches diameter, 2-inch tire. Light, strong and sturdy. Runs on steel bushing.

Discharge Equipment. 6 feet of 3/8-inch high pressure spray hose, 3-foot brass extension, brass angle spray nozzle and Perfection automatic shut-off.

Price—Each, \$13.00.

Hudson Ideal Sprayer

No. 34S—Is a high pressure portable outfit. Maintains working pressure of 200 pounds. Has capacity for two leads of hose. A handy outfit for the orchard, vineyard or truck garden. Practical for parks, golf clubs, private estate.

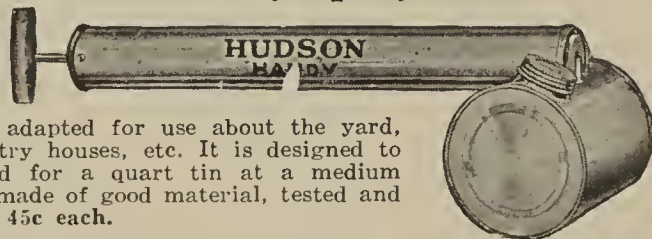
Tank is heavy galvanized or copper sheet. Reinforced at top and bottom with channel iron hoops. Fitted with malleable trunions for attaching to frame. Capacity, 18 gallons. Wheel is 18 inches in diameter, 2 1/2-inch tires. Discharge equipment, 6-foot 3/8-inch high pressure hose, a 4-foot 1/4-inch iron pipe extension—total, 10 feet. Angle Ideal brass spray nozzle and Automatic shut-off. Price, each, \$19.50.

Hudson Glass Jar Sprayer



Container glass. Large diameter base prevents tipping. Large opening makes easy filling, emptying and filling. Curved syphon tube permits use in almost vertical position even when nearly empty. Capacity 4 1/2 ounces. Price, each, 25c.

Hudson Handy Sprayer

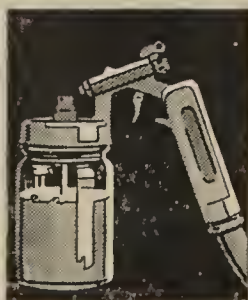


The Handy is adapted for use about the yard, garden and poultry houses, etc. It is designed to meet the demand for a quart tin at a medium price. Carefully made of good material, tested and inspected. Price, 45c each.

Insect-O-Gun

Attached to your garden hose, the Insect-O-Gun ejects a penetrating wide-angle "fan" spray with tremendous velocity, reaching every insect in its path with telling results.

The Insect-O-Gun is strongly built of heavy, durable non-rusting die metal and will last a lifetime. Any standard pint Mason jar can be used with the unit. It is boxed complete, including jar and full instructions, ready to attach to your garden hose for instant use. Price each (complete), \$3.75; 4-gallon, \$4.75 each; 6-gallon, \$6.00 each.



Hudson Barrel Spray Pump



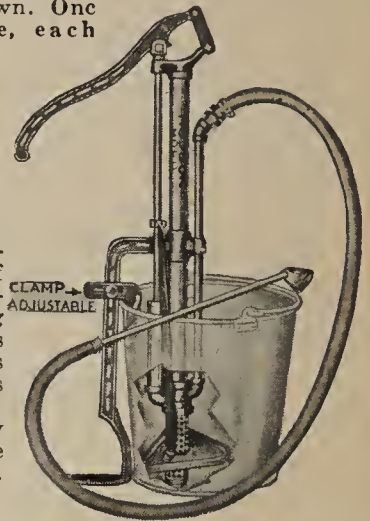
Handles whitewash, cold water paints, caustic mixtures, agricultural insecticides, etc. Pump cylinder seamless brass tubing, 1 3/4 x 7 inches. Air chamber high carbon steel, 2 x 27 inches, light, strong and sturdy. Tubular brass intake strainer provides area 15 times that of ordinary type. Dasher agitator cleans it at each stroke, absolutely preventing clogging. Entire valve assembly, including intake strainer, accessible from outside of pump without dismantling. Fitted with 6-foot discharge hose, 4-foot iron extension rod and brass angle spray nozzle. Weight 33 pounds.

No. 4SA. Barrel Pump. Complete as shown. One in crate, price, each \$11.50.

Hudson Moro Sprayer

The No. 126 SA Moro Sprayer is outstanding in the efficient application of white wash, cement paints, agricultural insecticides, and similar sediment bearing solutions. The non-clogging tubular brass strainer provides strainer area fifteen times as great as usual types. All working parts are brass.

Discharge equipment: 3ft. of 3/8-in. spray hose, a 2-ft. brass extension and fog nozzle fitted with discs for spray or solid stream. Easily mounted in barrel or tank. Price: Each, \$6.40.



Hudson Signal Duster



The Signal is a favorite for use about the home in war on roaches, ants and water bugs. Handles all insecticides in powder form very efficiently. Price, each 35c.

Hudson Adjutant Duster



The Adjutant is an improved type of Duster with wide range of usefulness. Compact enough for use in stores, offices, etc. Ample power and capacity for garden and field, in poultry house, etc. Price, each, 50c.

Hudson Major Duster



An efficient and powerful duster for all dry powder insecticides. Handles Paris Green, Arsenate of Lead, Cyanogas dust and similar poisons; powder reservoir 2 3/4 x 5 inches. Pump is 9 inches long. Special construction prevents clogging and keeps dust from backing up into pump compartment. Equipped as shown. Price, 90c each.

Brown's Magic Garden Hose Sprayer



Spray the modern way! Works like magic because you operate the Magic Sprayer with cartridges, on any garden hose. This modern sprayer will make 10 to 12 gallons of insecticide each hour per cartridge loading, depending upon water pressure. No more handling, mixing or carrying chemicals. Spray as much as you like—with no more effort than watering lawn.

Features—26 inches long. Transparent cylinder. Swivel extension for all direction spray. Automatic lever shutoff. Solid brass-chromium plated. Price, each, \$3.95.

Cartridges—Collodial Sulphur Fungicide for plant diseases. Pyrethrum and Rotenone for Sucking and Chewing Insects. Price, each, 35c; 6 for \$2.00.

Foods and Remedies—for Poultry and Cattle

THE SENSATIONAL NEW HIGH CALCIUM FEEDING SUPPLEMENT

The dairy cow is the hardest animal on the farm. At one and the same time she is expected to produce from 15 to 50 pounds or more of milk daily, develop a calf that will be born alive, strong and thrifty, and maintain her own health and vigor so she can carry on these tasks year after year with little or no rest.

To do all these profitably, the dairy cow must have an adequate and constant supply of certain necessary substances. And one of the most important of these substances is calcium. Calcium is lacking in practically all feeds.

Cal-Carbo is 98.99% pure calcium carbonate plus other vital minerals, and because of its

flour fineness, Cal-Carbo dissolves instantly and digests easily with no waste.

Cal-Carbo is required in all livestock rations.

Cal-Carbo

CAL-CARBO—Price per 100 lbs., 80c. If interested in quantities ask for special prices.

Beef Cattle

The high feeding value of Cal-Carbo in beef cattle rations is shown in the three-year tests conducted at the Kansas Experiment Station. At a cost of only 18 cents per head, profits were increased as much as \$7.69 per head on beef calves when small amounts of Cal-Carbo were added to the prairie hay ration. This was even a bigger profit than was returned on a

similar lot fed alfalfa. Tests conducted at the Oklahoma and Nebraska Experiment Stations confirmed these remarkable results.

Silage alone, when supplemented with Cal-Carbo, is a satisfactory roughage for cattle on which profitable gains can be made.

Swine

Hog raisers can increase average daily gain over 50%, and the amount of feed required per 100 lbs. gain can be reduced nearly a hundred pounds, when Cal-Carbo is added to the ration of fattening hogs on dry lot.

Cal-Carbo fed to brood sows insures more pigs to the litter, stronger and more vigorous litters, and a greater number reaching weaning time with good weight and ability to make rapid gains.

Perfection Mineral Mixture

FOR CATTLE

Composed of Steamed Bone Meal, Iodized Calcium Carbonate, Iron Oxide, Manganese Sulphate and Salt.

Mix two pounds per 100 lbs. of feed, or place in a container so that it is available at all times. When fed in containers it is necessary to supply common salt separately in order that animals will not consume more of the mineral mixture than is needed. Per 100 lbs., \$2.25.

Stonemo Granite Poultry Grit

"Scarce as hens' teeth" is an old saying. You have often heard this old adage, but did you ever stop to think how true it really is THAT HENS NEED TEETH? It's true—nature did not put teeth in the chicken's bill, but nature did provide for the grinding of food—with grit—in the gizzard. Without hard, insoluble granite grit in the gizzard the hen cannot grind, or chew, its food any better than a toothless person.

There is a great difference in the various chicken grit. The best poultry grit must be hard as flint, rough, so as to grind, or chew, all food consumed. The food as it passes through the gizzard must be ground finely, to be digestible—ground very much like corn grain is ground between flinty stones to make cornmeal. A lack of hard, insoluble grit in your flock will induce feather pulling, cannibalism, litter eating, indigestion, improper use of feed; consequently light weight and poor production.

We carry this in three sizes, Chick, Pullet and Hen. 25-lb. bags, 35c; 50-lb. bags, 60c; 100 lbs., \$1.00, f.o.b. Tulsa.

FINE GROUND BONE—For mixing once a day with soft food, this is unsurpassed. Lb., 10c; 10 lbs., 50c; 100 lbs., \$3.50.

PILOT BRAND OYSTER SHELL—Chemical analysis, together with the reports from experienced poultry men, show that ordinary grain and green food supplied to the laying hens do not contain enough lime for egg shells. Crushed oyster shells will supply this lime, if kept continually before the fowls, trusting them to eat the amount necessary. 50 lbs., 55c; 100 lbs., 85c.

PERFECTION BRAND CHARCOAL—Specially prepared for poultry. Lb., 5c; 25 lbs., 75c; 50 lbs., \$1.25.

Iodized Calcium Carbonate

With Manganiose

Iodized Calcium Carbonate is manufactured by a wet process by which every calcium particle is thoroughly coated with Iodine held in place by chemical-physical combination.

The inclusion of traces of Iodine in livestock feeds increases their digestibility, thus enabling cattle, hogs and sheep to make more milk, meat and wool, and hens to produce more eggs and better eggs, harder shells and high hatchability. Price per 100 lbs., \$1.00. Ask for quantity prices.

Squibbs Exadol Cod Liver Oil

Minimum 400 Units Vitamin D, 3,000 Units Vitamin A. 50c per pound. Ask for quantity prices.

Ful-o-Pep Poultry Feeds

We are distributors for this line and can offer to advantage one bag to a truck load.

Chic-Tone Inbalant

Baby chicks are reared, broilers are fattened, pullets are matured and flocks are kept in crowded conditions today! Colds and bronchitis are highly contagious. Remember that our INHALANT was originally developed for feeding station use. Here birds are crowded together deck upon deck. Colds and bronchitis—once caught—spread like wildfire. Our INHALANT controls this condition and packers continue to be among our best customers.

Literally thousands of sick birds taken from laying batteries, from exhibition coops, from confinement in poultry houses—wheezing and gasping noisily—considered hopeless cases by their owners, are being quickly restored by the Chic-Tone method.

Pints, 60c; quarts, \$1.00; gallons, \$3.50.

Carbolineum

Used for Three Distinct Purposes

1. Preserves wood everywhere against rot and decay and adds at least 100% to the life of fence posts, poles, sills, floors, bridge timbers, porches, wood imbedded in concrete, etc. On account of its nice brown color it is also a suitable wood preserving strain for shingle roofs, bungalows, cottages, farm buildings, silos, ice houses, boat houses, garages, poultry houses and hog pens.

2. Kills Chicken Mites in poultry houses. Apply once a year. GUARANTEE—We guarantee that one thorough application of Avernarius Carbolineum either by brush or sprayer to the interior walls, dropping boards, roosts, etc., to such buildings, after a previous cleaning and no matter whether they are of wood, tar paper, or plaster, will exterminate mites in the same FOR A WHOLE YEAR.

3. Avernarius Carbolineum assures positive protection for wood against the ravages of Termites, White Ants, and all other destructive vermin. Avernarius Carbolineum spreads quickly and effectively. A little goes a long way. It is not costly and a very small investment will give you assurance that your dwelling, barns and other buildings and fences, etc., are safe from destruction. 1-gal. cans, \$1.50; 5-gal. can, \$6.25.

Ask for quantity prices.

Hardwood Lump Charcoal

For filtering, and for burning in steak grills. Lb., 5c; 25 lbs. for 75c; 50 lbs. for \$1.25.

Binding and Stevens.

Dear Sirs: In checking up on my pullets, which are Rhode Island Reds, hatched February 7, and on this date laid their first eggs. Pullets averaging 4½ pounds each. Were started and fed on your New Perfection Feed with Green-Milk. I think this is a record worthy of praise for your feed, as I don't think it could be better even with higher priced feeds that are on the market. Must say I am very much pleased.

Wishing you success in your future products, I am,

H. BLAIR.

Conkey's Kafmeal

With Y-O (Yeast and Cod Liver Oil)

It is simply good dairy management to substitute Conkey's Kafmeal for the much more valuable—per liquid pound—whole milk or skim milk. Generally speaking, a calf should be fed a quantity of milk or Conkey's Kafmeal Gruel, equal to 10% of its body weight. This amount will run into a considerable sum of money if whole milk is used. Naturally the quantity increases as the calf grows. The feeding of Conkey's Kafmeal enables you to feed the calf for only a few cents per day. 25-lb. bags, \$1.30 each; 100 lbs. \$5.00.

EPSOM SALTS—Lb., 10c; 10 lbs., 60c; 100 lbs., \$4.50.

TOBACCO DUST—Lb., 10c; 25 lbs., \$1.25; 100 lbs., \$4.00.

PERMANGANATE OF POTASH—Lb., 50c; 5 lbs., \$2.25.

DRIED BUTTERMILK—Lb., 10c; 25 lbs., \$2.40; 100 lbs., \$9.00.

COMMERCIAL SULPHUR—Lb., 10c; 25-lb. lots, \$1.50; 50 lbs., \$2.00.

HYDRATED LIME—40-lb. sack, 40c.

MINERAL GRIT FOR PIGEONS—Lb., 4c; 100 lbs., \$1.90.

TOBACCO STEMS FOR PIGEON NESTS—5c per lb.

MIXED PIGEON FEED—Ask for prices.

PURE COD-LIVER OIL—\$1.50 per gallon.

Perfection Brand Poultry Feeds

All of our Perfection Brand Mashers are now made with Dried Greens-Buttermilk and Squibb's Exadol. Spring Range Grasses for Year 'Round Feeding.

HOW DRIED GREENS-BUTTERMILK IS MADE

By raising grasses (and grass is nature's most perfect food for fowl and animals) in soils of just exactly the right composition. The makers of Dried Greens-Buttermilk, working on this principle, are supplying just exactly such grasses, which are available to you the year around in this product. These grasses, moreover, are supplied at just exactly the right age at which they have the greatest effectiveness for health—a secret developed by the manufacturer's own research.

Dried Greens-Buttermilk is nature's solution of higher egg production, hatchability, lower mortality and increased weight in market stock. It is rich in Carotene (pro-Vitamin A), Xanthophyll and Chlorophyll, Vitamins B-1, C, E, G (ribo-glavin), B-4, B-6, Summer Milk Factor, Gizzard Factor and other Plus factors not yet identified.

Squibb's Exadol Cod Liver Oil has a minimum of 400 chick Units Vitamin D and 3,000 Units Vitamin A per gram.

For best results feed vitamins in their natural form with the young green cereal grasses, greens, milk.

Perfection Brand Chick Starter.

Perfection Brand Growing Mash.

Perfection Brand Turkey Starter.

Perfection Brand Broiler Mash.

Perfection Brand Egg Mash.

Good feeds at reasonable prices.

Tulsa, Okla., July 15, 1939.

Poultry Remedies—Continued

Iodine Vermicide For Intestinal Worms of Poultry

Various species of intestinal worms are present on most poultry farms. Worm infested poultry do not develop as rapidly as they should and the pullets cannot produce eggs as economically as those free of parasites.

No anthelmintic exists which will accomplish the proper results when mixed with feed for flock treatment. Individual dosing is therefore required. It is absolutely necessary for the Iodine Vermicide to be administered directly into the gizzard, which is easily accomplished when using the one-man method of dosing with our improved dosing appliances.

Do not fast the birds prior to dosing as this is not necessary. Grain in the crop makes dosing easier although the crop should not be too full.

COST. It only costs 3 cents a dose for mature pullets and half as much for younger birds. The subsequent egg production and saving in feed indicate the relative cheapness of Iodine Vermicide as against other vermicides used for this purpose regardless of price. A 1-lb. bottle of Iodine Vermicide properly diluted will dose 125 chickens, 2 lbs., or over, or twice as many young chicks.

Iodine Vermicide has many advantages not possessed by other products.

½-lb. bottles, \$1.80 each; 1-lb. bottles, \$3.25 each.

Avicol

Most people lose half of every hatch and seem to expect it. Chicken cholera or white diarrhoea is the trouble.

Avicol is easily given in the water for either the prevention or treatment. Thousands of poultry raisers who have used Avicol are unanimous in their praise of it. Price, 50c; large size, \$1.00—holds 2½ times the 50c size.



Walko Remedy

Don't wait until White Diarrhea has taken half of your hatch. Prevent it. There is no place where the old adage, "A stitch in time saves nine," applies as well in getting ahead of disease. There is scarcely a hatch without some infected chicks. Don't let these few infect your entire hatch. Give WALKO in all drinking water for the first two weeks and you won't lose one chick where you have lost dozens.

Regular size, 50c; extra large pkg., \$1.00. The dollar pkg. contains 2½ times as much as the 50c package.

Gold Leaf Tobacco Powder

Controls round worms in poultry. Contains not less than 1% nicotine, and requires 2 lbs. Gold Leaf Tobacco Powder to 100 lbs. of Laying Mash. 2-lb. pkg., 25c; 10-lb. pkg., 90c.

F. and E.

Chick Pick Remedy

At the first sign of cannibalism you should use some F. and E. Chick Pick Remedy, a blood colored non-injurious ointment. One taste is enough to discourage the most persistent cannibal. This is not a new product, but one that has been tried and proven for five years. 4-oz. size, 25c; 8-oz. size, 40c.

Ask for the lowest price when in the market for any of our poultry feeds.

Group-Over

The Over-Night Roup Remedy

Group-Over clears the air passages with magic quickness. Gets rid of the mucous and catarrhal discharges.

Promptly controls the disease and exerts an antiseptic, soothing, healing action on membranes.

Can be used either for individual treatment of severe cases, or administered as a vapor to several birds at the same time, or can be placed in the drinking water as a preventive for the whole flock. Regular size bottle, 50c; large size, 3 times 50c size, \$1.00.



C.A Worm Capsules

A Parke Davis Product

One treatment kills both large roundworms and tapeworms in chickens and turkeys. Individual treatment is recommended by practically all poultry authorities. C-A Worm Capsules are so easy to give that 200 or more birds can be treated in an hour. Parke Davis booklet on Poultry Worms mailed on request. Capsules are packed 50 in a package.

No. 195—For young birds.....Per pkg. \$.90
No. 196—For adult birds.....Per pkg. 1.25

Don Sung



Regular size, 50c; large size, \$1.00; holds 3 times the 50c size. Special size, \$5.00; holds 6 times the \$1.00 size.

Don Sung (Chinese for egg laying) is a scientific tonic which improves the hen's health, makes her stronger and more active and tones up the egg-laying organs.

Don Sung is easily given in feed, and costs nothing to try. It is used by thousands of successful poultry raisers the world over.

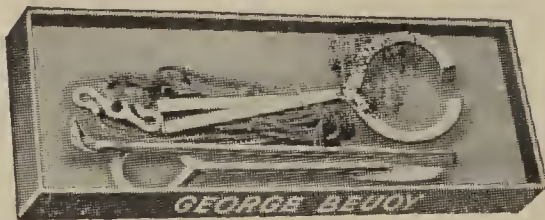


Lee's Pickpaste for Cannibalism

It is greasless and adheres to wounds. It is antiseptic and protects the wounds from dirt. Prices: 6-oz. pkg., 60c; 2-oz. tubes, 25c.

Caponizing Sets

CAPONIZING SETS. Poultrymen can double their profits by caponizing. The operation is very simple, and the instructions are so full and explicit that any man, woman, or child, after careful reading, will be able to perform the operation. It is highly successful from every point of view. The object in caponizing is to greatly increase the weight of the fowls, causing them in many cases to grow as large as turkeys, and weigh from 10 to 15 pounds, and the meat is of fine flavor, sweet, juicy, and tender.



The Spoon Set contains Combination Tissue Hook, Probe and Gland Remover, made of compressed aluminum. Each combination used at one time in order named without necessity of three different instruments. Price, \$2.50.

Nema Worm Capsules

Destroy Nine Kinds of Parasitic Worms Commonly Found in Sheep—Circular on Request

No. 190 5CC (80 min.)—For adult sheep, goats, large hogs. Pkg. of 12 for 75c; pkg. of 50 for \$1.40.

No. 189 2.5CC (40 min.)—For lambs and kids, small hogs. Pkg. of 12 for 50c; pkg. of 50 for \$1.20.

Lee's Germozone

Marvelous for Poultry

The regular use in the drinking water every other day is a big factor in preventing disease among poultry. 12-oz. bottle, 75c; 32-oz. bottle, \$1.50.

Lee's Flu-Koff Emulsion

12-oz. bottle, \$1.00

Lee's 64-page Book on Poultry Diseases mailed on request.

Lee's Vapo-Spray

Treat the Whole Flock

Simply spray in the air of the henhouse at night. All the birds breathe the vapor of its healing oils. Quart, 75c; ½ gal., \$1.25.

Lee's Lice Liquid

A Double-Barrel Killer—Destroys Lice and Mites

The fumes rising from this preparation kill the body lice. For mites, Lee's Lice Killer should be sprayed into all cracks, crevices, joints of walls, roosting places and nest boxes. Quart cans, 60c; gallons, \$1.50, f. o. b. cars.

Pinjectol for Pin Worms and Blackheads

The pin worm is recognized as a serious thing in the spread of Blackhead. For this reason all poults, and turkeys should be wormed once a year with Pinjectol. Get our free folder, Pin Worms and Blackhead in Chickens and Turkeys. 12-oz. bottle, 75c.

Sodium Flouride For Chicken Lice

United States Government recommends new chemical. Destroys even young lice as they hatch.

Poultry raisers need guess no longer as to the best method of getting rid of poultry lice. After many tests, the U. S. Department of Agriculture has found Sodium Flouride superior to any other preparation for this purpose. They say it kills both old and young lice, including unhatched lice present at the time of treatment. Full directions are on every can of S. F. for use in three ways, either by dip, dusting, or pinch methods. Prices: ½-lb. can, 15c; 1-lb. can, 25c; 10-lbs., \$2.35, postage extra.

Egg Cartons

Pasteboard holds 1 dozen. \$1.00 per 100; \$3.50 per 1,000.

Bee Supplies

Dadant's Foundation. Lewis Beeware. The standard of the bee-keeping world. Catalog mailed on request.

Perfection Brand Poultry Supplies



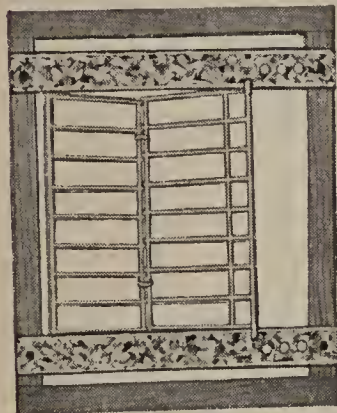
Just Paint it on the Roosts!

—Before the chickens perch. Only a small paint brush and a can of "Black Leaf 40" are needed. While chickens roost, fumes are slowly released and penetrate the feathers, killing lice. Eliminates individual handling of birds. Ask your dealer or write us.

Tobacco By-Products & Chemical Corp., Inc., Louisville, Ky.

"Black Leaf 40" Kills Poultry Lice

1-oz. Bottles	.....\$ .35
5-oz. Bottles	.....1.00
1-lb. Bottles	.....2.25
2-lb. Tins	.....3.25
5-lb. Tins	.....5.85
10-lb. Tins	.....10.60



Reliable Trap Nest Front

Made from galvanized wire, electrically welded. When the drop is down it permits a free circulation of air and will eliminate much loss through hens dying of heat on the nest. It is positive and free in action, almost noiseless.

Each, 30c; per dozen, \$3.00



Hudson Chick and Broiler Founts

Double Wall Type

They are inexpensive but practical. Outer jacket locks at bottom to inner tank. High dome anti-roost top. Heavy curled-edge pan is wade-proof. All brass, self-closing valve holds water in tank when jacket is removed.

K2 Fountain—2-gallon capacity for 75 chicks. Each, \$1.35.

K3 Fountain—3 gallon capacity for 100 chicks or 75 broilers. Each, \$1.00.

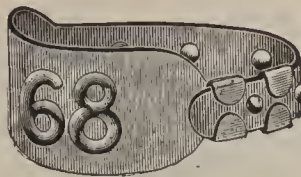
K5 Fountain—5 gallon capacity for 90 hens. Each, \$2.50.

Automatic Float Valve

Fresh Water All the Time

A perfect automatic valve and float for regulating flow of water to drinking fan. Positive in action. Float may be raised up while pan is removed for cleaning. Valve threaded for both 1/8-inch and 1/4-inch pipe and can be attached to any water pipe, bowl or tank. Will operate on pressure up to 50 pounds. Capacity about 2 1/4 quarts per minute. Price, each, 90c.

Leg Bands

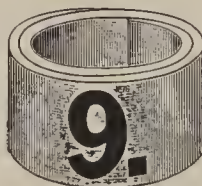


CHAMPION LEG BANDS—The oldest and most popular band on the market. The band is made in one piece in two sizes, adjustable to fit any fowl. They will stay where you

put them. Held by double lock, it is impossible for them to lose off. Made of best quality aluminum. Price, postpaid: 12 for 15c, 25 for 25c, 50 for 40c, 100 for 75c.

ASSORTED COLORED CELLULOID LEG BANDS—Dozen, 15c; 50 for 50c; 100 for 70c.

BANDETTES—The best colored Celluloid Leg Bands. Spring clip pattern. Neat and jointless appearance. Double numbers easy to read. 25c per dozen; \$1.50 per 100. Packed in boxes. State what size wanted when ordering.



DOUBLE NUMBER PIGEON BANDS—Same style as Economy Double Number. Dozen, 25c; 100, \$1.50, postpaid.

Hudson Handy Fill Chick Fountain



Hudson Handy Fill Chick Fountain

Made of heavy galvanized iron. Top has two-way swinging ball for carrying when filled. One-piece drinking pan has smooth rolled edges. Easy to fill—easy to clean.

Two-Gallon Size, each\$ 1.00
Three-Gallon Size, each1.20

Servall Poultry Litter

A farm product made from sugar cane. Dustless—Odorless—Absorbent—Sanitary—Bright—No Dusty Eggs and Fixtures—Keeps Eggs Clean and Salable—Light Color Improves Illumination—Never Any Bare Spots—Does Not Mat or Pile Up. Booklet on request. 100 lb. bale, \$2.00 each.

VIGORO

The **SQUARE MEAL** that assures rich BEAUTY in Lawns and Flowers

Do You Grow Berries? Write Us for Prices on Berry Crates.

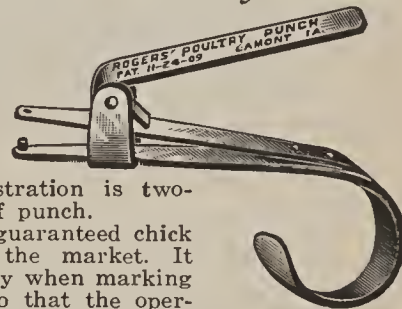
Day-Old Chicks

U. S. Approved
Pulorum Tested



We are prepared to furnish choice stocks of live and growing Chicks from the Best Hatchery. Prices gladly quoted on request.

Money-Back Poultry Punch



This illustration is two-thirds size of punch.

The only guaranteed chick marker on the market. It hangs handily when marking the chicks so that the operator can readily see what he is doing. Price, postpaid, 40c.

PETTY'S PERFECT POULTRY PUNCH—All steel nickel plated. Punches clean hole; right size, will not bruise foot. Price, 25c, postpaid.

Glass Pan Fountain

For Mason Jars

Drinking pan heavy molded glass with smooth edge. Mason Jar screws into metal clip and is held firmly in position when clip snaps over outer edge of pan. Jar and clip quickly detached from pan. Ideal for feeding medicated water or buttermilk to chicks. They can't get into the pan and drown. Jar not furnished.

No. B25—Each, 10c;
1 doz., \$1.10.



Mason Jar Fount

Very substantial pan with heavy rolled edge. We do not furnish the glass jars. Each, 10c; postpaid, 15c; dozen, 90c; dozen, postpaid, \$1.10.



Hudson Chick Founts

Bottom Fill Types

Tank snaps securely into pan and the whole fountain may be then carried full of water without spilling or running over. Tank fills easily when inverted because of flat space at top. Ribbed cone prevents roosting.

No. 01—5 Quart, each\$.55
No. 02—2 Gallon, each80
No. 03—3 Gallon, each 1.00



Hudson Chick Fount

The Reliable Gas Brooder

Constructed of the best quality galvanized copper bearing iron, reinforced around the edge with heavy wire. The Reliable Brooders are equipped with baffle plate below the burner, which eliminates the fire hazard, and permits hanging the brooder closer to the floor, throwing the heat further out and over the backs of chicks. This new safety feature means a great saving in fuel and insures a more uniform heat for the chicks. The brooder is also equipped with suspension brackets which permit the easy removal of the burner for cleaning.

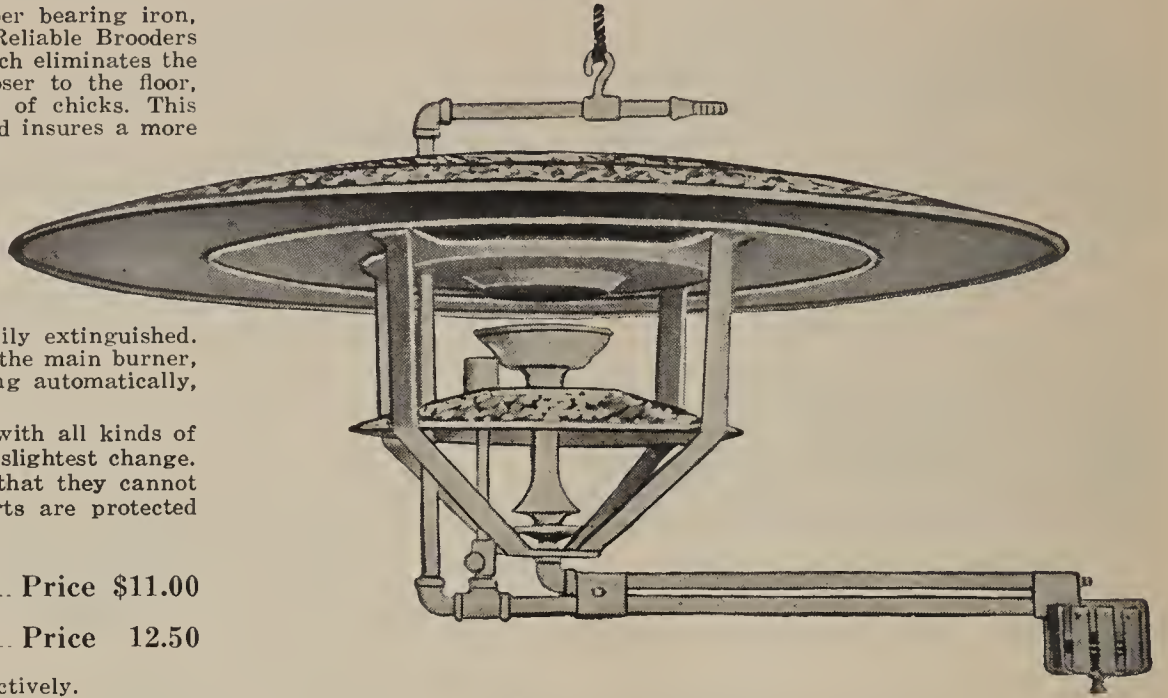
New type burners with hot point flame furnish ample heat. This type insures perfect combustion before the flame comes in contact with the steel plate. The separate pilot light burns constantly with a clear blue flame, and is not easily extinguished. During the heat of the day the thermostat shuts off the main burner, and when temperature lowers, the gas starts flowing automatically, and is ignited by the pilot.

The Reliable Gas Thermostat is equally efficient with all kinds of gas. The double wafer is extremely sensitive to the slightest change. The valve and seat are made of brass, so shaped that they cannot stick and will wear indefinitely. The working parts are protected from damage by a metal cage.

No. 500—36-Inch. Capacity 500 Chicks..... Price \$11.00

No. 700—48-Inch. Capacity 750 Chicks..... Price 12.50

Shipping weight 23 lbs. and 30 lbs. respectively.



Hudson No. 6E Drawer Brooder

Overall measurement: Drawer size, 20½x23 in.; inside head room, 6½ in.; width, 26½ in.; length, 24 in. Each drawer has a 3-foot extension cord with rubber plug (bulb not furnished). The floor of each drawer is framed hardware cloth, ½-inch mesh. The feed trough is in front, the water trough at left rear. Both easily removed for cleaning. Capacity, 50 chicks. Price, each \$2.80.

No. 81 Hudson Electric Drawer Brooder Takes Care of 100 Day-Old Chicks

The No. 81 Brooder is a complete brood unit in itself, designed to raise chicks up to 7 or 8 weeks. Best results and lowest operating costs are obtained if used in room with temperature of 70 degrees or higher. Drawer size, 23x35 in.; inside head room, 9½ in. Overall measurements: length, 40 in.; width, 32 in.; height, 11¼ in. Furnished complete with 6-foot rubber covered cord and unbreakable plug, red pilot and attraction light bulb. Three troughs are furnished, one soldered for water. The floor is made of ½-inch mesh framed wire, tinned after framing. Wire grill door. Price, each, \$10.00.



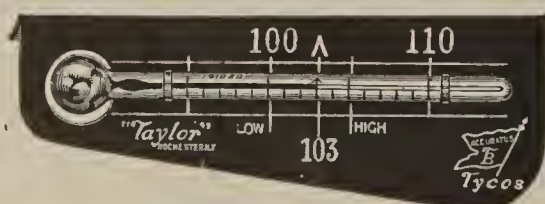
Hudson Thermostat Wafers

A compound, solid post wafer that responds instantly to temperature variations. Absolutely accurate and dependable. Fits all standard makes of brooders, both coal and oil type.

No. 33—Size 3 inches, for coal brooders.....30c each
No. 33—For oil Brooders.....30c each

Reliable Gas Thermostat

This gas Thermostat is simple to install on your brooder, and easy to operate. It is equally efficient with all kinds of gas. The double wafer is extremely sensitive to slightest temperature change, and is thoroughly tested before it leaves the factory to insure reliability at any brooding temperature. No rubber or composition in the construction of this Thermostat. The valve and seat are made of brass, so shaped that they cannot stick, and will wear indefinitely. The working parts are protected from damage by a metal cage. Price, each \$4.50.



Tested Thermometers

The best incubator or brooder is useless unless the thermometer used therein is accurate. Hundreds of hatches in incubators fail because of inferior thermometers. A large number of chickens are killed in brooders owing to defective or worthless thermometers. The thermometers listed herein are manufactured especially for us, and are thoroughly tested and seasoned before they are shipped.

Tycos Certified Incubator Thermometer

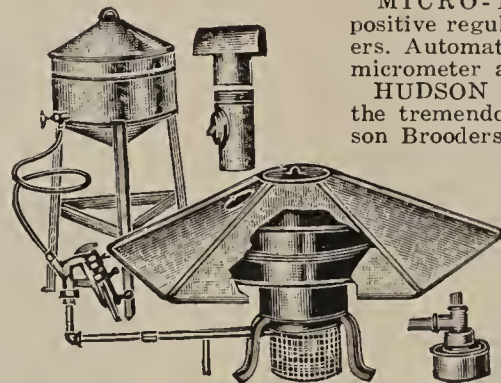
Engraved tube, every fifth line and figure stamped on the scale. Each one accompanied by maker's certificate of accuracy. Each, \$1.00.

Taylor Brothers Incubator Thermometers, 80c each; postpaid, 90c.

Taylor Brothers Brooder Thermometers, 65c each; postpaid, 75c.

Hudson Oil Burning Brooders

Safety—Efficiency—Dependability—Durability—Convenience at Low Cost
with "MICRO-TEM" Valve and Silent Burner



MICRO-TEM VALVE is an improved, positive regulator used on all Hudson Brooders. Automatic temperature regulation with micrometer accuracy.

HUDSON SILENT BURNER furnishes the tremendous heating power of the Hudson Brooders. Cast from special alloy grey steel for longest life. It burns kerosene or cheap distillate with equal efficiency and extracts maximum heat units from every drop of fuel.

The brooding area of Hudson Brooders is approximately 18 inches larger than the hover diameter. They provide abundant, uniform heat, carefree control and fume free air in any weather.

No. 52—Hover 42 inches over-all. Capacity 300 to 400 chicks. Recommended for houses not over 10x12 feet. Each, \$10.00. TS3 Stands for Oil Tank, \$1.00 each.

No. 148—Hover 48 inches over-all. Capacity 400 to 600 chicks. Recommended for houses not over 12x14 feet. Each, \$13.50. Stands, \$1.00 each.

No. 255—Hover 54 inches over-all. Capacity 600 to 1000 chicks. Recommended for houses not over 14x16 feet. Each, \$16.50. Stands for Oil Tank, \$1.00 each.

Peat Poultry Litter

Vacuum Cleaned
Saves Time, Labor, Money

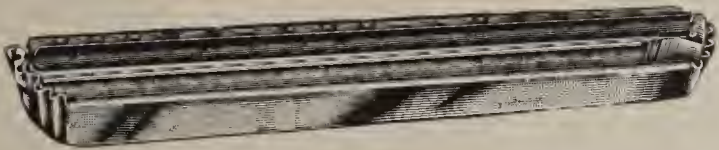
It is a natural absorbent, capable of taking up and holding four or five times as much moisture as straw, shavings or sawdust, and therefore acts as an insulator and humidity control. It prevents spread of disease not only because it keeps the house dry and clean, but because it is sanitary—free from bacterial and parasitic life. It absorbs offensive odors and helps keep down the ammonia fumes in the droppings. It is harmless to birds if eaten by them. It provides a resilient cushion over the floor so that birds will not develop bumble foot.

It reduces fire hazard. It requires no breaking up, is easy to spread, and may be left in the poultry house for several months. Peat Moss is one of the best humus or mulch products known to horticulture, and with addition of poultry droppings it becomes a fertilizer of the finest type. Per bale of 11 bushels, \$2.15 each; per bale of 22 bushels, \$3.60 each. Ask for prices on larger lots.

Hudson's "Leads-All" Chick Feeders

The "Leads-All" is not the conventional type of small low priced feeder. Troughs, 1 $\frac{5}{8}$ -inch depth, 2 $\frac{5}{8}$ -inch bottom width and 4-inch top width. Every trough with feed saving lip curved for chick safety and feed economy. 4-blade reel. Reels spin freely, prevent caught or injured chick toes, and are suited for feeding even to broiler size.

R218—18-inch length 25c each \$2.40 dozen
R224—24-inch length 30c each 2.75 dozen

Charcoal Tin Feeder

New popular priced feeder or waterer for buttermilk, medicine feed or water. 4-blade red enameled reel, adjustable to two positions.
No. 224T—24-inch length 40c each \$4.25 per dozen

Hudson Flock Feeders

Eleven inches wide and 5 $\frac{1}{2}$ inches deep. Rolled edges prevent billing out and waste of feed.

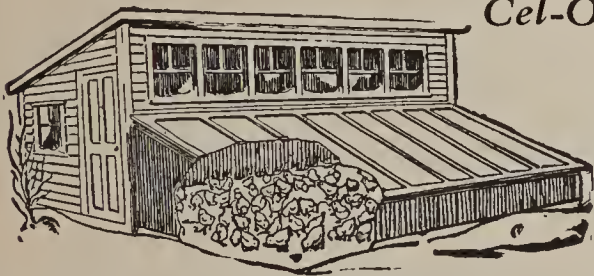
No. 48—8 feet in length, each \$5.75
No. 45—5 feet in length, each 3.75

Hudson Chick Feeders

With Balanced "S" Type Reel

A strong, well built feeder for small flocks. Full 1 $\frac{5}{8}$ -inch depth, 2 $\frac{5}{8}$ -inch bottom width, 4-inch top width, with feed saving lip curved for chick safety and feed economy. Reel spins freely, prevents caught or injured chick toes.

No. 101—10-inch length 10c each \$1.10 dozen
No. 105—15-inch length 15c each 1.65 dozen

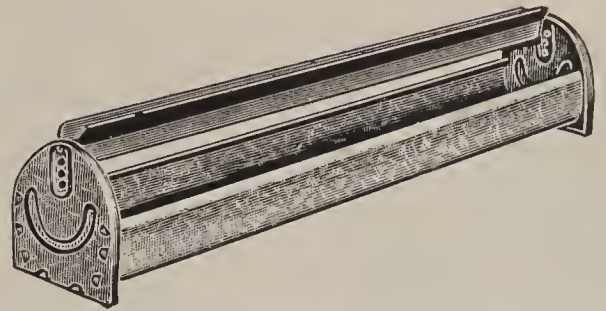
**Cel-O-Glass**

Now With a Five-Year Guarantee

The real glass substitute for poultry houses, chicken coops, brooder coops for windows, greenhouses, hot beds, cold frames. Is hail-proof, snow-

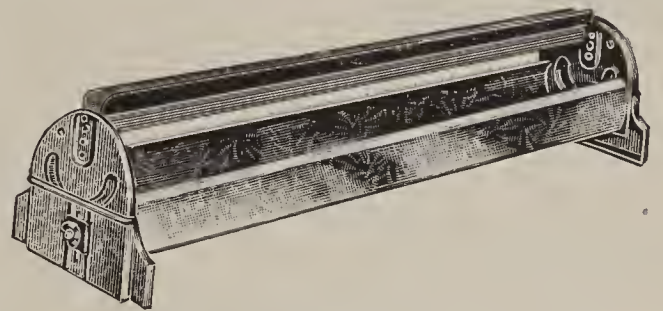
proof, wind-proof, practically indestructible. Easy to put on; no putty or costly sash bars—just tack in place from rolls three feet wide and any length to 100 feet. Made from the best grade screen wire and holes are filled with a preparation that resists rain, hail, snow or wind.

We have this in two sizes, 36 inches wide and 28 inches wide at 13 $\frac{1}{2}$ c per square foot. If ordered in rolls of 25 running feet the price is 13c per square foot. F. O. B. Tulsa or Muskogee, Oklahoma.

Adjustable Feeders

A new improved feeder using a round bottom trough in two lengths suitable for day old to six weeks old chicks. Feed moves to center as used and remains clean to the last speck. Adjustable to 4 useful positions on shouldered reel pins for instant spinning.

No. 336—36-inch length each 55c dozen \$5.75
No. 348—48-inch length each 70c dozen 7.50

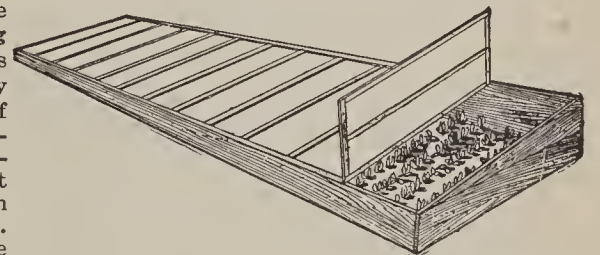


New Sanitary Round Trough with new 4-blade all metal reel adjustable to 4 positions. A unique feeder with rigid stands, adjustable quickly with one wing nut, and free spinning 4-blade. 4 position reel easily adjusted as the chicks grow.

No. 436—36-inch length each 65c
No. 448—48-inch length each 80c

Vio-Ray Window Fabric

Vio-Ray is made with a new coating process which assures longer life. Is nearly 100% moisture-proof and has greater flexibility. It is weather-proof and does not rot like ordinary cloth window materials. Vio-Ray transmits the ultra-violet rays of the sun, which increase egg production, save baby chicks, and promote health and growth in animal, plant and human life. It is used for poultry houses, hog houses, cold frames, hot beds, porches, dairy barns, rabbit hutches, etc. Price, per square yard, 25c; 25-yard roll, 36 inches wide, at 20c per square yard, postpaid.

**Hudson Flame Sprayer**

The Hudson Flame Sprayer has many individual features. Burner unit produces a flat flame with wide burning area. Flames temperature is 2000 degrees F. Flames spread 12 inches. Burns kerosene or 34-42 d. gravity distillate or stove oil. Burner consumes about 1 gallon of fuel per hour. 60-pound air pressure gauge conveniently mounted on handle of burner where it is easily seen.

TANK—7 $\frac{1}{2}$ inches in diameter, 21 inches high; capacity, full 4 gallons.

HOSE—36 inches, special high pressure, resistant to kerosene and fuel oil.
No. 100 W—Flamer Sprayer \$14.00

See Pages 31 and 32 for
Complete Line of Sprayers

**"Stand-Up"
Ezy-Cut Grass
Shears**

Eliminates stooping, kneeling and back-breaking positions. "Stand-Up" fits the hand naturally with the body in upright position. Cutting action same as No. 157, except is operated from top of handle by connecting rod.
No. 1575—Each \$1.90

See Pages 39 and 40
for Other Tools



Supply Department



Perfection Meat Cereal Dog Food

For Dogs, All Breeds, and Puppies, All Ages
THE COMPLETE FOOD

Perfection Dog Foods are scientifically made to combine the best ingredients in the proper proportion for the health of your dog. They are made to build up the vitality of a run-down dog—to develop strong and big-boned puppies—a wonderful muscle builder—and containing all the vitamins and nutritional food values to properly nourish and satisfy either the house dog or field

trial champion. Perfection is made of the following ingredients: Beef Meal, Dehydrated Meat, Bone Meal, Wheat, Corn Rice and Bran, Soy Bean Flakes, Wheat Germ, Yeast, Cod Liver Oil, Powdered Milk, Kelp Meal, Barley Malt, Iodized Salt, Molasses, Charcoal and Spring and Durum Wheat Flour. Contains Vitamins A, B, C, D, E and G. Perfection Dog Food is made in two forms.

PERFECTION MEAT CEREAL is served with water, milk or gravy. 5-lb. bag, 50c; 10-lb. bag, 75c; 25-lb. bag, \$1.55; 100-lb. bag, \$5.50.

PERFECTION MEAT CEREAL CUBES—Ready to serve. In feeding these cubes, it is necessary for the dog to chew them, thus stimulating salivary secretions and aiding digestion. The chewing also keeps the teeth clean and the gums in good condition. 5-lb. pkg., 55c; 10-lb. pkg., 85c; 25-lb. pkg., \$1.65; 100-lb. bag, \$5.75.

Fleischman's Irradiated Yeast for Dogs

If your dog is tormented by excessive itching, which is not due to fleas or mange, the trouble may come from inside his system. Irradiated Yeast in most cases will correct this trouble. Mix with the food. 3½-oz. can, 25c; 8-oz. can, 50c; 1-lb. can, 85c.

Pulvex

A Lice and Flea Powder

Some small animal owners, particularly those owning dogs, cats and poultry, prefer to dust them to get rid of lice and fleas rather than wash or dip them. In such cases we recommend Pulvex, a non-poisonous, odorless product, which is sure death to lice and fleas. Price: 2-oz. pkg., sifter top, 50c each; 12-oz. pkg., \$1.25 each.

Dixie Dog-Dyp

Made from Pine Oil. A flea killer, skin bracer, deodorizer and cleanser. Use 50 parts water to 1 part Dixie Dog-Dyp. Pint cans, 50c each; quart cans, 80c each, postage extra.

Genesee Folding Camp and Picnic Grill

What is finer than a juicy steak grilled over glowing coals, fresh caught fish sizzling in the pan, broiled wieners or hamburgers cooked in the open over a charcoal fire?

Whether you are far from home on a long trip, at your favorite picnic spot or in your own garden, all you need is a Genesee Folding Grill, and a bag of Lump Charcoal, to prepare a meal "fit for a king."

The Genesee absolutely prevents any sparks or ashes from dropping to the ground. Either end of the grid may be raised for replenishing the fire without disturbing food cooking on the other end.

	Size of Cooking Grid	Height	Each
No. 1626	16"x11"	16"	\$1.85
No. 2124	21"x11"	21"	2.50

IT'S SO EASY WITH
GARDEX
"Soil-Flow"
TOOLS

Banish Back-Breaking Chopping Motions

See Page 39

Catalogue of complete line Gardex Tools
mailed on request.

Champion Dog Foods

Are Clean Enough for Human Consumption... Pure Cod Liver Oil Is Used in Champion Biscuits



Champion Dog Biscuit is composed of clean, sweet meats—twenty-five per cent more than in any other dog food—and the choicest of cereals and ground grains; all perfectly blended in the proportion best suited to the needs of the dog. Being heavy with protein—the real essential basis of all dog foods—Champion Dog Biscuit is most nourishing. It is truly "The Balanced Ration" in every sense.

Champion Dog Biscuit is intended as a regular and steady diet. Being a balanced ration, it supplies food elements necessary to produce smooth, glossy coats, regular habits and general good condition. Champion Dog Biscuit builds bone and sinew, imparts strength and stamina.

Also Special Biscuits for puppies, and Kibbled Dog Food.

CHAMPION DOG FOODS

	Per lb.	25 lbs.	100 lbs.
Puppy Biscuit	\$0.15	\$2.55	\$9.25
Puppy Meal	.15	2.55	9.25
Kibbled Dog Food	.15	2.55	9.25
Dog Biscuit	.15	2.55	9.25



Champion Cat Food

Highly Nutritious, Palatable

Champion Cat Food is a scientifically balanced diet for cats and kittens, furnishing all the nutritive elements necessary to their proper growth and health. Champion Cat Food is equal to a 50% meat diet and in addition to the meat contains just the right proportions of cereals, minerals and pure cod liver oil. 10-oz. pkg., 10c; 1½-lb., pkg., 25c, postage extra.

Catnip Mice

Cloth mouse filled with catnip. Cats and kittens frolic and cut up all kinds of antics when given a catnip mouse. It is a necessity for every family that keeps a cat or kitten. Very important that growing kittens have catnip. 15c each; \$1.95 per dozen.



Pard

A meat food product made by Swift & Co. Ready to serve ration made especially for dogs and cats of all breeds and ages by specialists in animal nutrition. 1-lb. cans, 10c; per case, 48 cans, \$4.25, f. o. b. cars, Tulsa.

Sergeant's Dog Remedies

Have been before the public for over half a century. Dog owners can rely upon Sergeant's Remedies at all times to be safe and effective and the last word in scientific treatment of canine ills. Sergeant's Book on Dogs mailed on request.

	Postpaid
Mange Remedy	65c
Condition Pills	60c
Sure Shot Capsules. For roundworms, pinworms and hookworms	60c
Puppy Worm Capsules	60c
Tapeworm Remedy	60c
Arsenic and Iron Pills. A blood purifier. For treating blood and skin diseases	60c
Canker Wash. For treating ear canker	60c
Well Mouth. For treating sore mouth and black tongue	60c
Pepsin Tablets. For treating indigestion	60c
Diarrhea Remedy	60c
Cough Medicine	60c
Rheumatic Pills	60c
Dog Rub. A splendid liniment for lameness, sore muscles and swollen limbs	60c
Eye Wash	60c
Constipation Capsules	60c
Run Fit Medicine	\$2.00
Carbolic Tar Soap	25c
Skip-Flea Powder	25c

Supercedar Kennel Bedding

Keep your dog's bed free of fleas. A pleasant deodorant and natural enemy of fleas, lice, mites and moths. Supercedar Kennel Bedding is made from Tennessee Aromatic Red Cedar, the heart wood of which contains the wonderful oil of cedar. Supercedar Kennel Bedding is produced 90% or more of red heart wood, scientifically dried, and none of the valuable oil has been removed. Price, 5-lb. bag, 50c; 25-lb. bag, \$1.25; 50-lb. bag, \$2.25.

Supply Department—Continued

Time Tested Remedies For Use on Dairy Farms

Kow Kare

It has many uses on the dairy farm, its supply should never be permitted to get low. It is recommended for scouring, loss of appetite, bunches; especially favorable in cases of possible or threatened abortion. Widely recommended for barrenness, for retained afterbirth, for milk fever. There is no better medicine for cows. A handy book, "The Home Cow Doctor," mailed on application. Kow Kare, large size pkg., \$1.25; medium size, 65c.

Poke Root Compound

For that sericus disorder peculiar to cows—it is favorably known to every dairyman. Price per can, 65c; enough to treat 15 cases.



Bag Balm

For all diseases of udders and teats, such as caked bag, sore teats, bunches, chapping, cuts or inflamed parts, you can use this remedy with perfect safety; positive results in every case. The use of Bag Balm will make decidedly easier milkers of your herd. Price: 60c per can.

Bag Balm Dilators

Scientifically shaped to the correct normal position of the delicate tissues of the muscles of the teat canal. Non-irritating. Fluted shaft retains correct amount of Bag Balm to promote rapid healing. 25 Dilators packed in Bag Balm for 60c.

Meat Curing Made Easy

Morton's Sugar Curing Smoke Salt is an improved meat-curing salt—a perfect blending salt, sugar-cure and smoke. It is easy to use and cures so thoroughly that you'll never want to go back to old methods of curing and smokehouse smoking. With Morton's Smoke Salt, you salt-cure, sugar-cure and smoke the meat all at the same time. No smoke-house is needed. All the flavoring and preserving qualities of salt, sugar-cure and pure wood smoke penetrate uniformly into the meat. The rich natural juices and tasty fats are all retained. There is no chance for meat to become smoke-dried and smoke-hardened. Results are uniform. Ten pounds cures and smokes 100 pounds of meat. 10-lb. can, \$1.00. Case, six 10-lb. cans, \$5.00.

Morton's Complete Meat Curing Service

MORTON'S SUGAR CURE—A triple action smoke salt. 2-lb. pkg., 25c; 10-lb. pkg., 90c.

MORTON'S TENDERQUICK—2½-lb. pkg., 50c; 10-lb. pkg., \$2.00.

MORTON'S SAUSAGE SEASONING—10-oz. pkg., enough for 30 lbs. meat, 25c.

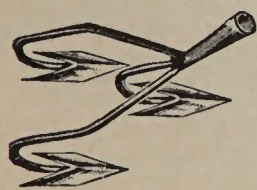
MORTON'S MEAT CURING THERMOMETER—Each, \$1.00.

MORTON'S MEAT PUMP—Each, \$1.50.

MORTON'S 64-PAGE BOOK ON MEAT CURING mailed on request.

GARDEX "Soil Flow" TOOLS

No. 1553 Gardex Cultivator



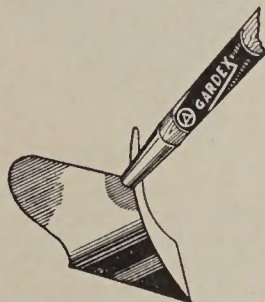
With the new GARDEX patented Diamond Point Shares. Use this tool instead of the old chopping hoe for five times faster and better work. It pulls easily through the soil without using pressure. The action of the tool itself keeps it in the ground. Complete with 5 ft. normal length GARDEX handle.

3 prongs, 6 in. wide \$1.35
No. 1563—8 in. wide 1.80

No. 2006 Gardex Hand Plow

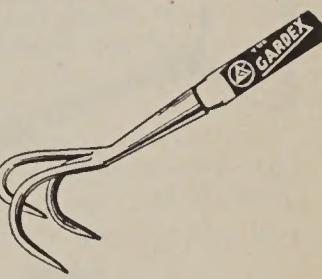
For opening and covering furrows, hilling vegetables, etc., making irrigating ditches. Complete with 5 ft. normal length GARDEX handle.

6 in. wide \$1.75
No. 2008—8 in. wide 1.90



No. 1503 Gardex Small Cultivator

Loosens and air-conditions the soil in small plots, penetrating it easily. No back-aches or blisters. A favorite with every gardener. Complete with 4 ft. normal length GARDEX handle. 3 prongs, 3½ in. wide 80c



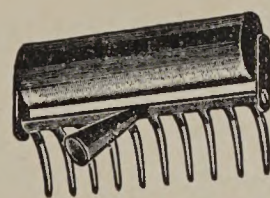
No. 110 Gardex Pull Hoe Weeder

With Diamond Point Share. Weeds at least five times faster and easier than old chopping hoe. Penetrates any soil with easy pull, cutting all weeds in its path. You will marvel at its performance. Complete with 5 ft. normal length GARDEX handle.



With 1 Diamond Point Share—Width, 3½ in., \$1.30; 5 in., \$1.50; 6 in., \$1.70.
With 2 Shares—Width, 8½ in., \$2.10.

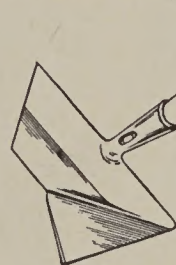
No. 254 Gardex Roller Rake



Rake covers seeded rows, roller presses down the soil to give the seed closer contact with the soil for quicker germination. Handy for rolling lawn seed into soil. Roller detachable. Complete with 5 ft. normal length GARDEX handle.

10 inches wide, 10 teeth, roller diameter 2¾ inches \$2.20

No. 400 Gardex Turf Edger

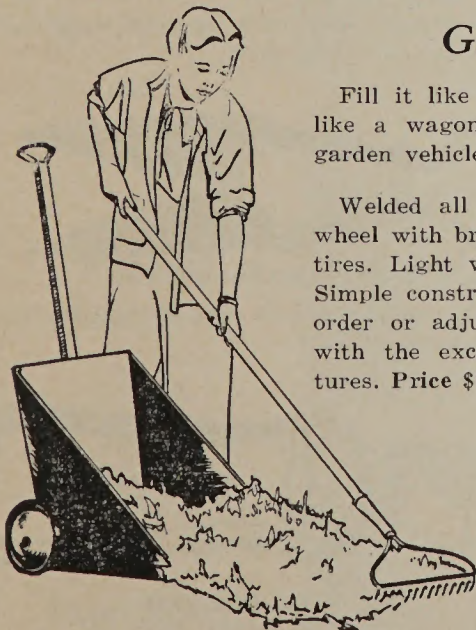


Edges a thousand running feet an hour, cutting clean vertically and horizontally in one operation—along sidewalks, driveways, flower beds, around trees. Push along in short strokes. Complete with 4½ ft. normal length GARDEX handle. Price \$1.30

Gard-n-Cart

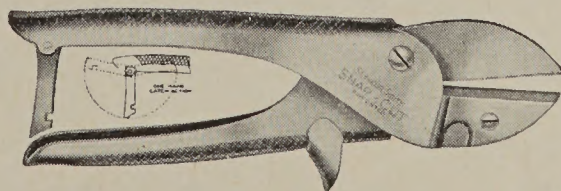
Fill it like a dust pan. Push or pull it like a wagon. Dump it easier than any garden vehicle you have ever used.

Welded all steel body. Steel axle. Steel wheel with brass bearings and solid rubber tires. Light weight, approximately 15 lbs. Simple construction, nothing to get out of order or adjust. No other garden vehicle with the exclusive new Gard-n-Cart features. Price \$3.95 each.



FEED WITH
VIGORO
COMPLETE PLANT FOOD

No. 119—Snap-Cut Pruner



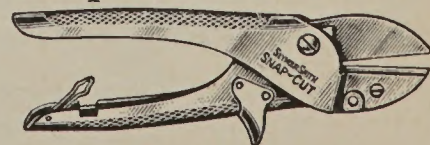
Featuring New Bronze Anvil—Cuts ¾-inch Branches Easily

The "Snap-Cut" action has brought efficient pruning within the reach of everyone. Featured in the "Snap-Cut" construction is the super-keen V

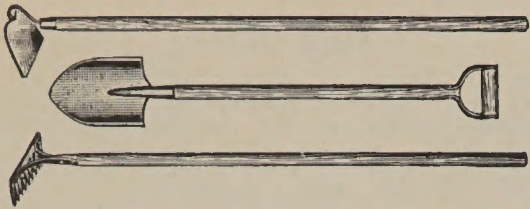
blade, which severs the tough branches with the slightest injury to the bark. New long-lasting bronze anvil does not dull or injure the edge of the blade. All cutting parts are replaced at low cost. Length, 8 inches. No. 119, \$1.50 each.

No. 118—Ladies' Snap-Cut Pruner

Handsome, pocket size pruning shears for lighter work. Easily cuts ½-inch branches. Six inches long. No. 118, each \$1.10.



Handy Tools for Every Gardening Need

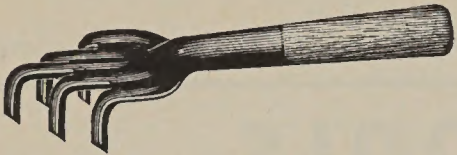


NO. 556—SHORT HANDLE GARDEN SET

This set is a durable one of sufficient strength for adult use in the flower garden. Three pieces: Rake, Hoe and Spade. Handles colored with gloss enamel, metal parts bright cadmium non-rust finish. The handles are approximately three feet long. Price per set of 3 pieces, 95c.



No. T5—Transplanting Trowel 15c each
No. T4—Garden Trowel 15c each

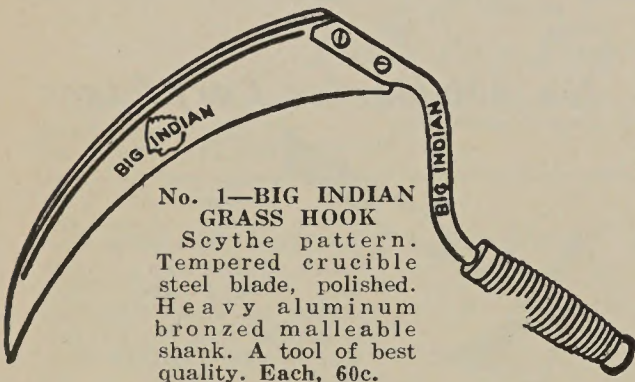


No. W6—Five-prong Weeder 15c each



No. 170—WEED AND HEAVY GRASS CUTTER
Crucible steel blade, 13 inches long, 2 5/8 inches wide. Heavy steel channel arms, red enameled. Bolted to 31-

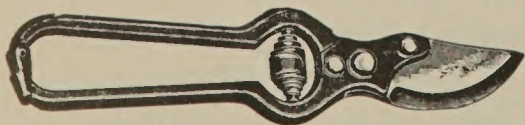
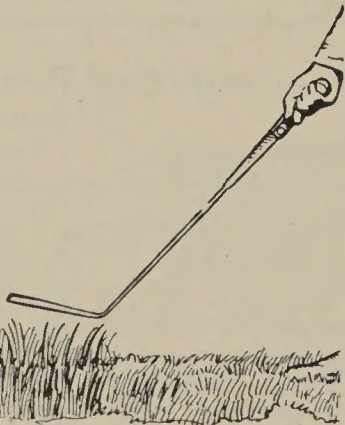
inch hickory handle.
Each, \$1.10.



No. 1—BIG INDIAN GRASS HOOK
Scythe pattern. Tempered crucible steel blade, polished. Heavy aluminum bronzed malleable shank. A tool of best quality. Each, 60c.

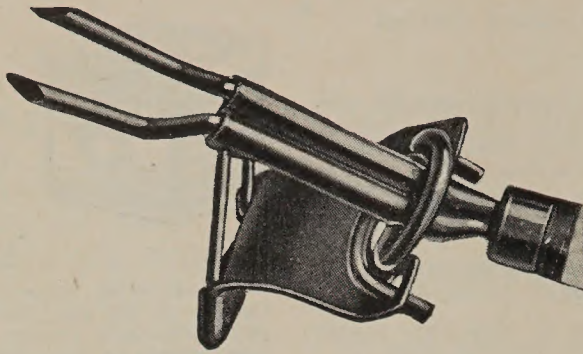
No. 16 GRASWIP

Cut your grass and weeds without stooping. Cuts both with forward and backward swing. Made of forged tool steel. Length over all, 37 inches. Blade length, 9 1/4 inches; width, 1 3/8 inches. Each, \$1.00.



No. V129—PRUNING SHEARS

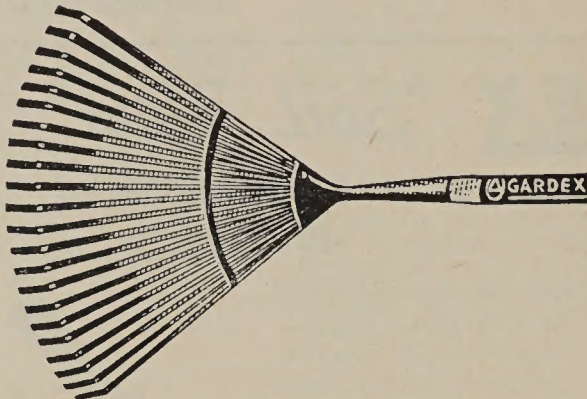
Forged cutlery; steel blades; blue steel Volute spring. Each, 75c.



SURE-GRIP WEED PULLER

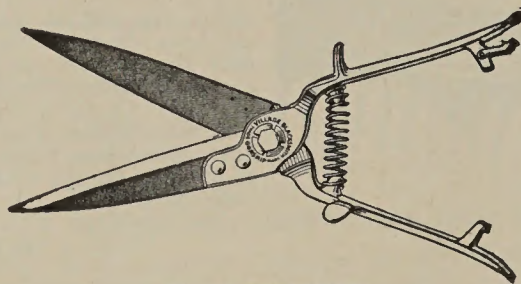
Thirty-eight inch strong fir handle. With a slight push this weeder will remove not only the weed, but the entire root.

The Sure-Grip Weeder is designed to pull small weeds without injury to the lawn. Moisten the ground thoroughly before using the Sure-Grip Weeder and you will be delighted with results. Price, each, \$1.35.



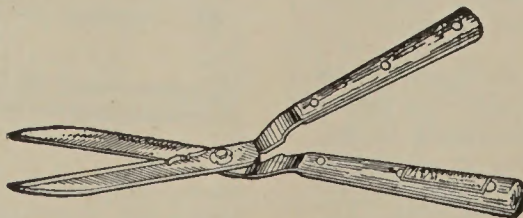
GARDEN LAWN SWEEP

No. 403—The Garden Lawn Sweep is a distinct improvement over other lawn rakes used broom-fashion because all twenty-two fingers touch the ground when it is swept across the lawn, giving you full benefit of the entire tempered spring-steel. Well balanced and light, it is a handy helper at clean-up times from the spring of the year through fall. 18 inches wide with 42-inch handle. Price, each, \$1.00.



No. 1 GRASNIP

Length over all, 13 inches. Tempered, full hollow ground cutlery steel blades. Responsive, smooth and easy spring action. Weight, 1 lb. each. Price, \$1.00 each.



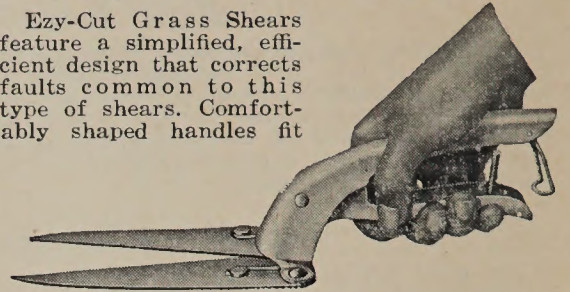
TRIMSNIP

The Modern Hedge Shear. Lighter in weight, stronger in build, smoother in cut. The Trimsnip is eight ounces lighter than the old style hedge shear. Forge built—it is an extremely sturdy tool, comfortable in the hand. It can be operated with the least muscular effort.

No. 06—6-inch blade, wt. 1 1/2 lbs. Each, \$1.45
No. 08—8-inch blade, wt. 2 1/2 lbs. Each, 2.00
No. 09—9-inch blade, wt. 3 1/2 lbs. Each, 2.25

Ezy-Cut Grass Shears

Ezy-Cut Grass Shears feature a simplified, efficient design that corrects faults common to this type of shears. Comfortably shaped handles fit

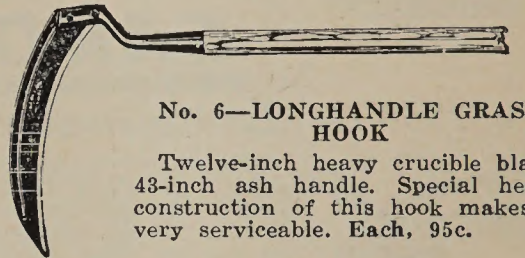


the hand naturally without pinching or tiring. Blades are self-tensioning and need no adjustment. May be easily taken apart for sharpening and cleaning. No. 157 Ezy-Cut Shears, 90c each.



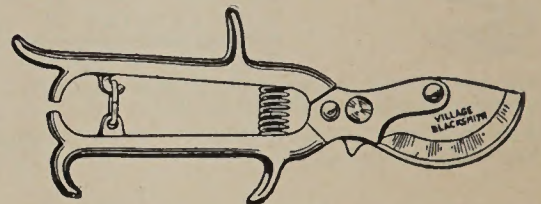
GARDEN TROWEL

Six-inch, one-piece crucible steel blade and socket. Very substantial. Each, 45c.



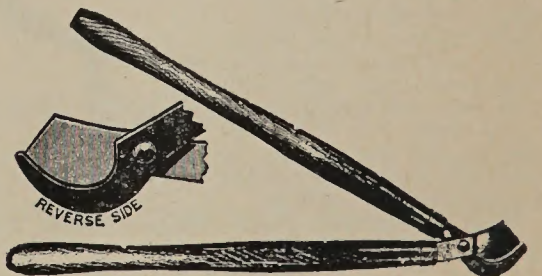
No. 6—LONGHANDLE GRASS HOOK

Twelve-inch heavy crucible blade. 43-inch ash handle. Special heavy construction of this hook makes it very serviceable. Each, 95c.



No. R10—PRUNER

A serviceable shear; oil spring. Each, 85c.



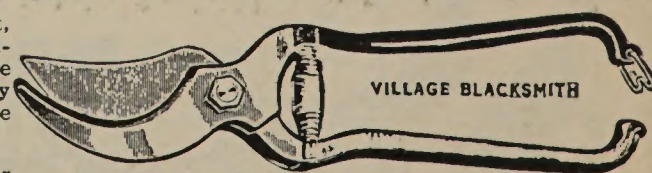
V20—LONG HANDLE PRUNING SHEARS

Twenty-six inches over all with lock nut. Notched blade. Each, \$1.75.



No. V2—GRASS SHEARS

Green enameled handle and spring. Straight shank. Each, 50c.



No. V179—PRUNER

All steel, length 7 1/2 inches. Each, 95c.

Beautify Your Lawn . . . *Plant Perfection Brand High-Germinating Grass Seeds*

PERFECTION BRAND BERMUDA GRASS—Bermuda is a Southern grass. It delights in sunshine and warmth. It is very difficult to eradicate when once established. The seed should be planted in the spring. Seed requires 30 to 60 days to germinate. The seeding should not be done too early, as the seed will not germinate if sown before the weather and ground have become warm. Pound, 50c. Postpaid.

PERFECTION BRAND BERMUDA GRASS—FANCY HULLED—Ordinary Bermuda seed is sometimes very slow to germinate. This year we are offering hulled Bermuda Seed which will germinate in a week to ten days. Do not plant before May as the soil must be warm for the seed to germinate. Price on hulled seed, 75c per pound. Postpaid. Write for quantity prices.

PERFECTION BRAND RYE GRASS—Domestic grown seed. Used as a winter lawn and winter pasture. Planted on Bermuda sod during August or September at the rate of one pound to 100 square feet makes a fine green lawn during the fall, winter and spring, lasting until June. For pastures plant during August or September at the rate of 35 pounds per acre. Pound, 20c. Postpaid. Write for prices on large quantities.

Enjoy the Charm of a Beautiful Lawn

This year millions of new gardens will be made . . . a natural follow-up to the big building and remodeling program undertaken last year. We are prepared to guide and counsel inexperienced gardeners and will be glad to serve them with highest quality plants, seeds, and equipment.

Because undernourishment is one of the most common reasons for poor results with lawns, flowers, shrubs, and trees, we recommend regular feeding with Vigoro, the square meal for all plants.



Vigoro Prices

100-lb. bag	\$4.00	10-lb. pkg.	\$.85
50-lb. bag	2.50	5-lb. pkg. . . . .	.45
25-lb. bag	1.50	1-lb. pkg. . . . .	.10

F. O. B. TULSA OR MUSKOGEE

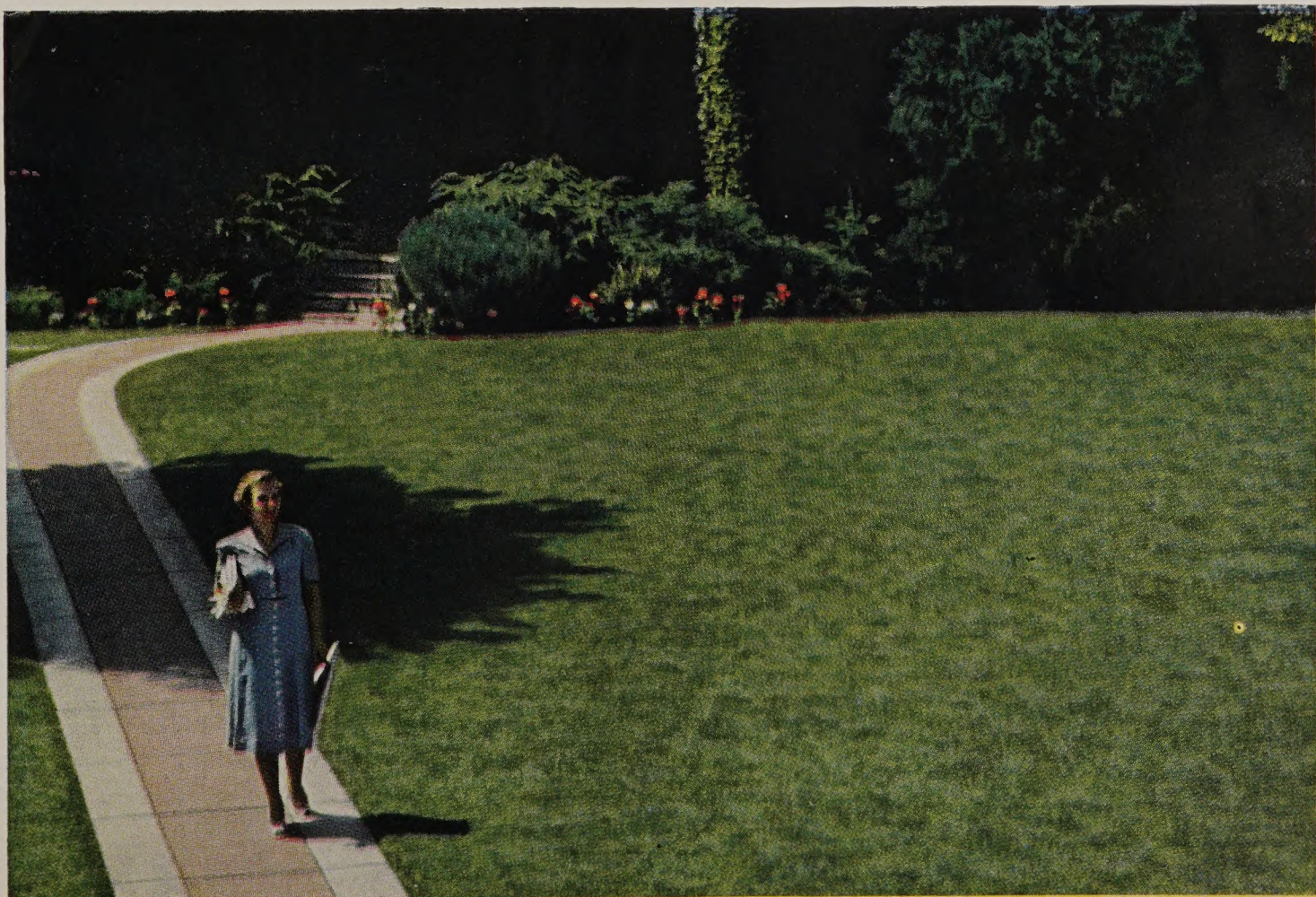


FEED YOUR LAWN WITH VIGORO

Simple Instructions in Planting Perfection Brand Grass Seed

In planting Bermuda or other small grass seeds it is best to have the land thoroughly cleaned and firm before planting. The seeds of grasses are so extremely small as to be able to come up through only a thin layer of soil. The covering of the seeds can scarcely be too shallow. The seeds may then be scattered over the land by hand, or by using a small hand seeder, such as is listed in this catalog. After sowing, a hand rake should be used, which will mix the seeds with the soil so they will be lightly covered, then keep ground wet by thorough sprinkling, until the grass comes up to a sufficient stand.

SEE
 PAGE
 26
 For
 Complete
 Description
 and
 Prices
 On
 VIGORO
 SPREADER
 See
 Opposite
 Page for
 Complete
 Lawn Tools



A PERFECTION SEED LAWN

We Highly Recommend the New

PEARSON TOMATO

(Illustrated Below)

This wonderful, new Tomato was developed by the California Agriculture Experiment Station.

Fully described and priced on page 12 of this catalog.



Plan your Vegetable Garden now! Start right and *insure* best results by planting . . .

PERFECTION BRAND
SEEDS

Demand
and get
Perfection Brand
Seeds
"Since 1906"